



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

NOV 20 2015

REPLY TO THE ATTENTION OF:

Ronald Coupar, Environmental Manager  
Behr Iron & Metal  
1100 Seminary Street  
Rockford, Illinois 61104

RE: Approval for Cleanup and Disposal of Polychlorinated Biphenyls (PCB)

Dear Mr. Coupar:

The U.S. Environmental Protection Agency, Region 5, has reviewed your requests for Self-Implementing PCB Disposal and Risk-Based Characterization approval under 40 C.F.R. § 761.61(a) and 761.61(c). We reviewed your original submittal dated October 22, 2015 and subsequent submittal dated November 18, 2015 which was provided in response to Agency comments. You submitted the notifications and applications in accordance with Section 6 of the Toxic Substances Control Act, 15 U.S.C. § 2605, and the Federal PCB regulations at 40 C.F.R. § 761.61(a) and 761.61(c).

The cleanup plan you submitted will address PCB impacted materials discovered as a result of a 2010 renovation project within the Behr Peoria Facility. As part of the renovation a significant volume of fill material in a 100 x 40 x 9 foot concrete-lined former building foundation was discovered. The fill material was excavated, stockpiled on a concrete pad, and characterized per a work plan approved by EPA on December 17, 2014. The Work Plan describes the loading of the stockpiled soil onto trucks and transporting the soil for disposal at appropriate landfills. Once the soil/fill is removed and the concrete pad is decontaminated, verification sampling of the concrete pad will be performed to determine compliance with remediation objectives.

The verification sampling procedures specified in the November 18, 2015 submittal is different from 40 C.F.R. Part 761, Subpart O. However, 40 C.F.R. 761.61(a) stipulates that the Regional Administrator may authorize more practical procedures through 761.61(c). We have determined that use of the verification sampling and potential capping procedures identified will not present an unreasonable risk to human health or the environment.

We have determined that the remainder of the requirements, certifications, and notifications satisfy the requirements under 40 C.F.R. § 761.61(a) for Self-Implementing cleanup of PCB remediation waste and these plans are approved. It is understood that Behr may also need to institute a deed restriction for the site at the completion of the site-wide RCRA Corrective Action activities which will also satisfy the requirements of 40 C.F.R. 761.61(a)(8) for this project. This letter does not relieve Behr from compliance with any other federal, state or local regulation

and does not preclude EPA from initiating any enforcement action, including an action seeking civil penalties for any violation of federal regulations. In addition, please note that if you wish to make any changes to your notification (including changes in the project schedule), then you must submit your proposal to Jennifer Dodds, of my staff, in writing at least 14 calendar days prior to the proposed implementation of the change. If you have any questions, please contact her by e-mail at [dodds.jennifer@epa.gov](mailto:dodds.jennifer@epa.gov) or by telephone at (312) 886-1484.

Sincerely,

*Michael D. Harris* *for M.G.*

Margaret M. Guerriero  
Director  
Land and Chemicals Division



October 22, 2015

Reference No. 11103179

Susan Hedman  
Region 5 Regional Administrator  
c/o Mirtha Cápiro  
U.S. Environmental Protection Agency  
77 W. Jackson Boulevard, Mail Code LR-8J  
Chicago, Illinois 60604-3507

**VIA EMAIL AND  
CERTIFIED MAIL**

Lisa Bonnett, Director  
c/o Todd Gross  
Illinois Environmental Protection Agency  
Bureau of Land, Division of Remediation Management  
Remedial Project Management Section  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, IL 62794-9276

Wil Hayes  
Director of Environmental Health  
Peoria City/County Health Department  
2116 N. Sheridan Road, Peoria, IL 61604

Dear Sirs:

**Re: Notification and Request for Approval of a Work Plan for Self-Implementing On-Site  
Cleanup and Disposal of PCB Remediation Waste  
Behr Peoria, Inc. Facility, 2424 West Clark Street, Peoria, Peoria County, Illinois  
LPC#: 1430655140 and USEPA ID: ILD065238503**

The U.S. Environmental Protection Agency (U.S. EPA), Illinois Environmental Protection Agency (Illinois EPA), and Peoria City/County Health Department are hereby notified of a planned self-implementing cleanup and disposal of polychlorinated biphenyl (PCB) remediation waste at the Behr Peoria, Inc. (Behr) facility located at 2424 West Clark Street, Peoria, Illinois (Site) as required under 40 CFR 761.61(a)(3). The Site has been identified as LPC#: 1430655140 and U.S. EPA ID: ILD065238503.

As part of a 2010 renovation, Behr Peoria, Inc. discovered a significant volume of soil-based fill material in a 100x40x9 foot concrete-lined former building foundation. The fill material consists of a

mixture of auto fluff<sup>1</sup>, bulk product waste from scrap metal recycling activities (e.g., slag), soil, and gravel. The fill material was excavated, stockpiled on a concrete pad, and covered with tarps. Tephra Environmental Compliance LLC (Tephra) and GHD, Inc. (GHD) were retained by Behr Peoria Inc. (Behr) to assist with the characterization and disposal of this waste.

Preliminary soil sample results gathered for waste stream characterization purposes identified polychlorinated biphenyl (PCB) concentrations above 50 parts per million (ppm) in one of the three samples obtained from the excavation pile.

Tephra developed a Toxic Substances Control Act (TSCA) waste characterization plan which was approved in an email from Mirtha Cápiro of the U.S. EPA to Bernadette Scheller (now Bernadette Greenwood) of Tephra dated December 17, 2014. The TSCA waste characterization plan included the division of the stockpile into quadrants and the collection of 50 soil samples for PCB analysis.

GHD initiated field activities on August 26, 2015 and collected the soil samples described in the TSCA waste characterization plan plus additional samples to support RCRA waste characterization efforts. The results of the sampling indicate that the northern half of the pile includes PCBs >50 ppm and the southern half includes PCBs <50 ppm.

GHD has prepared the attached Work Plan for Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste (Work Plan) with a written certification signed by the owner of the property. The Work Plan is based on the 40 CFR 761.61(c) risk-based disposal approval. The Work Plan proposes loading the stockpiled waste onto trucks and transporting the waste to appropriate landfills, and also describes the nature of the contamination and a summary of the sampling procedures used to characterize the Site. We request a review and approval of the attached Work Plan by the U.S. EPA.

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<sup>1</sup> Auto fluff is the non-metallic material that remains after junked automobiles are stripped and shredded during the recycling process.



Please let me know if you have any questions or comments regarding this request. I can be reached by phone at 773-380-9731 or by email at [douglas.soutter@ghd.com](mailto:douglas.soutter@ghd.com).

Sincerely,

GHD

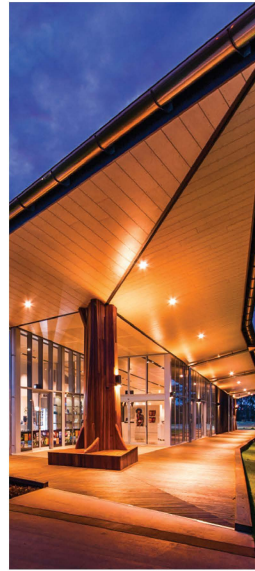
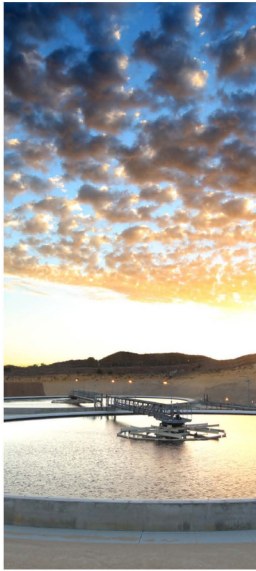


Douglas Soutter

DS/lg/1

Encl.

cc: Ronald Coupar, Behr Peoria, Inc.  
Bernadette Greenwood, Tephra Environmental Compliance



# **Work Plan for Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste**

Behr Peoria, Inc. Facility  
2424 West Clark Street  
Peoria, Illinois

# Executive Summary

This report provides notification to the Environmental Protection Agency (U.S. EPA), Illinois Environmental Protection Agency, and Peoria City/County Health Department of a planned self-implementing cleanup and disposal of polychlorinated biphenyl (PCB) remediation waste at the Behr Peoria, Inc. (Behr) facility located at 2424 West Clark Street, Peoria, Illinois (Site) as required under 40 CFR 761.61(a)(3). This notification includes Site characterization information, a cleanup plan, and a written certification by the owner, IBS Inc.

As part of a 2010 renovation, Behr discovered a significant volume of fill material in a 100x40x9 foot concrete-lined former building foundation. The fill material consists of a mixture of auto fluff, bulk product waste from scrap metal recycling activities (e.g., slag), soil, brick, cobbles, and gravel. The fill material was excavated, stockpiled on a concrete pad, and covered with tarps. Preliminary soil sample results gathered for waste stream characterization purposes identified PCB concentrations above 50 parts per million (ppm) in a sample obtained from the northern portion of the stockpile. Following the discovery of PCBs, additional Site characterization efforts were initiated. The characterization efforts included the collection of 16 PCB samples to support a statistical analysis, the development and approval of a PCB Remediation Waste Characterization Plan, and the collection of 50 samples for PCB analysis. As a result of the characterization the northern half of the stockpile (North Pile) was determined to contain greater than 50 ppm of PCBs and the southern half of the stockpile was determined to contain less than 50 ppm of PCBs.

A self-implementing plan (Work Plan) developed under 40 CFR 761.61(c) (risk-based disposal approval) is proposed and we request written approval of the Work Plan by the U.S. EPA. The Work Plan includes loading the stockpiled soil onto trucks and transporting the soil for disposal at appropriate landfills. Following the removal of the soil/fill, the concrete slab will be washed and then core samples will be collected for PCB analysis. The results of the core samples will be used to verify that the cleanup is complete.

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## Appendices

Appendix A	2014 PCB Remediation Waste Characterization and Disposal Plan
Appendix B	Email from Mirtha Cápiro recommending that Behr implement the PCB waste characterization as proposed
Appendix C	2015 Laboratory Reports
Appendix D	2015 Validation memorandum
Appendix E	Resumes of GHD and Tephra project personnel
Appendix F	Certification by the property owner and the party conducting the cleanup

## Abbreviations and Short Forms

Auto fluff	The non-metallic material that remains after junked automobiles are stripped and shredded during the recycling process
Behr	Behr Peoria, Inc. (formerly Joseph E. Behr & Son)
DOT	U.S. Department of Transportation
GHD	GHD Inc.
HASP	Health and safety plan
HAZWOPER	Hazardous Waste Operations and Emergency Response standard
Hiram Walker	Hiram Walker & Sons/Gooderham & Worts Ltd., Plant No. 2
Heritage	Heritage Environmental Services, LLC
IBS	IBS, Inc. (formerly I. Bork & Sons)
Illinois EPA	Illinois Environmental Protection Agency
mg/kg	Milligrams per kilogram
NELAC	National Environmental Laboratory Accreditation Conference
NFR	No Further Remediation
North Pile	Northern half of the stockpile (PCBs >50 ppm)
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated biphenyl
ppm	Parts per million
Site	Behr Peoria, Inc. Facility, 2424 West Clark Street, Peoria, Illinois
South Pile	Southern half of the stockpile (PCBs <50 ppm)
SRP	Illinois EPA Site Remediation Program
TCLP	Toxic Characteristic Leaching Procedure
Tephra	Tephra Environmental Compliance LLC
TSCA	Toxic Substances Control Act
U.S. EPA	U.S. Environmental Protection Agency

## 1. Notification

The U.S. Environmental Protection Agency (U.S. EPA), Illinois Environmental Protection Agency (Illinois EPA), and Peoria City/County Health Department are hereby notified of a planned self-implementing cleanup and disposal of polychlorinated biphenyl (PCB) remediation waste at the Behr Peoria, Inc. (Behr) facility located at 2424 West Clark Street, Peoria, Illinois (Site) as required under 40 CFR 761.61(a)(3). The Site has been identified as LPC#: 1430655140 and U.S. EPA ID: ILD065238503.

## 2. Background

From approximately the 1930s or 1940s (AP, 1979) until approximately 1968, the Site was owned and operated as Plant No. 2 by the Hiram Walker & Sons/Gooderham & Worts Ltd (Hiram Walker) distillers (Jordon, 2014). The Hiram Walker Plant No. 2 closed in approximately 1960. I. Bork & Sons, later called IBS, Inc. (IBS) purchased the Site and in 1968 opened a large new scrap metal processing plant that included an auto shredder. IBS operated the Site as a scrapyard until approximately 1999 when IBS began leasing the Site to Joseph E. Behr & Son (later called Behr Peoria, Inc.) (Jordon, 2014). Behr continues to operate the Site as a scrapyard. The Site location is shown on Figure 1 and a Site Plan is shown on Figure 2.

As part of a 2010 renovation, Behr discovered a significant volume of fill material in a 100x40x9 foot concrete-lined former building foundation. The fill material consists of a mixture of auto fluff<sup>1</sup>, bulk product waste from scrap metal recycling activities (e.g., slag), soil, and gravel. Although the exact source is unknown, it is suspected these materials originated from metal salvaging operations.

The fill material was excavated, stockpiled on a concrete pad, and covered with tarps. Preliminary soil sample results gathered for waste stream characterization purposes identified polychlorinated biphenyl (PCB) concentrations above 50 parts per million (ppm) in one of the three samples obtained from the excavation pile. Following the discovery of PCBs, additional Site characterization efforts were initiated and are described in the following sections.

## 3. Site Characterization

### 3.1 Nature of the Contamination, Including Kinds of Materials Contaminated

The contaminated material is a fill material which was excavated from a former building foundation. The fill material is a mixture of auto fluff, bulk product waste from scrap metal recycling activities (e.g., slag), soil, brick, cobbles, and gravel. Portions of the fill material have exhibited PCB concentrations above 50 ppm. The fill material is currently stockpiled on a concrete pad and covered with tarps.

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<sup>1</sup> Auto fluff is the non-metallic material that remains after junked automobiles are stripped and shredded during the recycling process.

## 3.2 Investigative Procedures

This section provides a summary of the procedures used to sample the stockpile for pre-cleanup characterization.

### 3.2.1 February-March 2010 Initial Waste Characterization Sampling

One composite sample was collected for waste stream characterization on February 26, 2010. This sample was submitted under an appropriate chain of custody to First Environmental, Inc. a National Environmental Laboratory Accreditation Conference (NELAC) certified testing laboratory in Naperville, Illinois. This sample was analyzed for Toxic Characteristic Leaching Procedure (TCLP) volatiles, semi-volatiles, metals, and total PCBs. The results of this sample did not identify any contaminants of concern above the regulatory limits for disposal in a Subtitle D landfill (Helsten, 2015).

Subsequent thereto, three additional soil samples were gathered for additional waste stream characterization on March 30, 2010 by a representative of Waste Management. Those samples were submitted for PCB analysis under chain of custody to TestAmerica Laboratories, Inc., a NELAC certified laboratory in University Park, Illinois. The results of the analysis identified a PCB concentration above 50 ppm in one of the three samples. This sample (S-11 NW) was collected from the northwest quadrant of the stockpile and exhibited a PCB concentration of 57 ppm (Helsten, 2015).

### 3.2.2 May 2010 Preliminary Statistical Evaluation Sampling

Based upon discussions between Behr, Tephra Environmental Compliance LLC (Tephra), and the U.S. EPA, Behr performed additional sampling and analysis of the stockpiled materials to support a statistical analysis. The stockpiled material was divided into four quadrants, each containing four sections. One section within each quadrant (for a total of four sections) was selected as a "pilot" section. Within the pilot section, four grab samples were obtained utilizing a backhoe and bucket. The samples were submitted to First Environmental, Inc. for analysis of PCBs. Remnant soils from the sampling process were returned to the point of origination within the stockpile (Helsten, 2015).

One of the 16 samples exhibited a PCB concentration greater than 50 ppm. This sample (S-11 NW2) was located in the northwest quadrant of the stockpile and had a PCB concentration of 60.3 milligrams per kilogram (mg/kg) (Helsten, 2015).

### 3.2.3 2010-2014 Self-Implementation Plan Modifications

In August 2010, Behr submitted a Self-Implementation Plan based on the results of the May 2010 sampling event. The 2010 Self-Implementation Plan was disapproved by the U.S. EPA and a period of technical discussions followed and on December 17, 2014, the U.S. EPA approved the characterization plan included in the 2014 PCB Remediation Waste Characterization and Disposal Plan, which is provided in Appendix A. The email approval is provided in Appendix B.

The characterization plan used the variance among PCB concentrations from the May 2010 sampling event to determine the number of samples required to achieve a statistical confidence of 95% that the mean PCB concentration is less than 50 ppm (with a Type II error rate <10%). The number of samples required to achieve the 95% confidence is shown in the table below:



Table 3.1 Number of Samples Required to Achieve 95% Confidence

Quadrant ID	Quadrant Location	Number of Samples
1	Northeast	11 (33/quadrant)
2	Southeast	3 (9/quadrant)
3	Northwest	2 (6/quadrant)
4	Southwest	0 (already identified as $\geq 50$ ppm PCB)

This analysis was used to generate the sampling strategy that was approved by the U.S. EPA (Cápiro, 2014). The approved sampling strategy divided the stockpile into quadrants for evaluation. Each quadrant was subdivided into thirds and a specified number of samples were collected from each subdivision. This is shown on Figure 3.

#### 3.2.4 August 2015 Stockpile Sampling Event

On August 26-27, 2015, GHD Inc. (GHD) sampled the stockpile for PCBs pursuant to the approved 2014 PCB Remediation Waste Characterization Plan with additional samples collected for Resource Conservation and Recovery Act (RCRA) waste characterization parameters.

##### 3.2.4.1 Health and Safety Plan

A Site-specific health and safety plan (HASP) was prepared prior to the initiation of field work.

##### 3.2.4.2 Utility Location

GHD sent an E-Request to the Joint Utility Locating Information for Excavators (JULIE) prior to the initiation of field work. GHD confirmed the JULIE clearances which were marked on the concrete pad.

##### 3.2.4.3 Equipment Decontamination

Each piece of sampling equipment (e.g., hand auger) was decontaminated prior to use and between each sampling location by washing with water and a laboratory grade detergent (e.g., Alconox) followed by rinsing with distilled water.

##### 3.2.4.4 Selection of Sampling Points

The sampling points were selected by dividing the pile into quadrants and subdividing the quadrants into thirds. The specified number of sample locations in each third of a quadrant were selected using a grid or at random. Grid sampling was used when the stockpile surface was relatively flat (with minimal risk of slip/trip/fall hazards) and the number of samples to be collected was large.

##### 3.2.4.5 Sample Collection Methodology

At each location, a hand auger was advanced until refusal was encountered. Soil samples were transferred from the hand auger to laboratory-supplied bottles. The samples were placed in coolers with ice and transported to the project laboratory under chain of custody. A sample key is provided in Table 1.

#### 3.2.4.6 Summary of PCB Analytical Results

Of the 50 samples collected for PCBs, three exceeded the 50 mg/kg threshold (SB-2, SB-33, and SB-34). Each of the exceedances was located in the northeast quadrant (Quadrant #1). The northwest quadrant (Quadrant #3) was identified as exceeding 50 mg/kg in earlier investigations. A summary of the PCB sample results is provided in Table 2. Breakdowns of the PCB analytical results for the South Pile and the North Pile are provided in Tables 3 and 4 respectively. The laboratory reports are provided in Appendix C and data validation memoranda are provided in Appendix D.

These results indicate that Toxic Substances Control Act (TSCA) regulations for remediation waste  $\geq 50$  mg/kg will apply to the northern half of the stockpile (North Pile). The southern half of the stockpile (South Pile) will be considered Non-Hazardous Special Waste.

#### 3.2.4.7 Summary of RCRA Waste Characterization Analytical Results

One soil sample was collected from each quadrant and submitted for analysis to support RCRA characterization. An additional two soil samples were collected from the northwest quadrant (Quadrant #3) and submitted for analysis selected by the project's TSCA landfill. A summary of the RCRA characterization analytical results is provided in Table 5. Breakdowns of the RCRA characterization analytical results for the South Pile and the North Pile are provided on Tables 6 and 7 respectively.

These analytical results do not indicate any of the characteristics of hazardous waste under 40 CFR 261 or 35 IAC 721.

### 3.3 Location and Extent of Contaminated Areas

The location and extent of the North Pile and the South Pile areas are shown on Figure 2. The sample collection locations are shown on Figure 3.

## 4. Cleanup Plan

This section presents a cleanup plan for the Site, including schedule, disposal technology, and approach. This plan contains options and contingencies to be used if unanticipated higher concentrations or wider distributions of PCB remediation waste are found or other obstacles force changes in the cleanup approach.

### 4.1 Project Organization

The project team will be comprised of the following personnel:

#### **Tephra Project Manager – Bernadette Greenwood**

Bernadette Greenwood's responsibility will be to maintain the overall safety, quality, schedule, and financial objectives of the transport and disposal aspects of the project. Bernadette Greenwood will be Tephra's liaison with the client and will be involved in developing invoices and attending project meetings.

#### **GHD Project Manager – Douglas Soutter**

Douglas Soutter's responsibility will be to maintain the overall safety, quality, schedule, and financial

objectives of the loading, decontamination, and reporting aspects of the project. Douglas Soutter will be GHD's liaison with the client and will be involved in developing invoices and attending project meetings.

#### **Field Project Manager – Mike Keppel**

The Field Project Manager will be responsible for the day to day activities on the project and the sequencing/coordination of both subcontractors and GHD personnel on the project site. The Field Project Managers will be at the jobsite full time and will be responsible for maintaining the project schedule as well as project communication.

#### **On-Site Health & Safety Officer**

The Field Project Manager will also be responsible for Health & Safety at the project site. As the on-Site Health & Safety Officer, he will ensure that all of the work to be accomplished is performed in appropriate levels of protection. He will be responsible for reviewing each new task with GHD and subcontract personnel prior to the work activity starting so that everyone is aware of potential hazards associated with the new activities.

#### **On-Site Quality Control Managers**

The Field Project Manager will also be responsible for ensuring that all of the project work is performed in accordance with the project specifications and that all of the required submittals and project documentation are delivered in a complete and timely manner.

The resumes of these Tephra and GHD personnel are attached in Appendix E.

## **4.2 Schedule**

A general project schedule is provided in the table below.

**Table 4.1 Schedule**

Task	Expected Duration
Mobilization and Site preparation	2 days
Loading southern half of stockpile	8 days
Loading northern half of stockpile	8 days
Decontamination of slab	4 days
Demobilization	2 days

A specific schedule for the work will be completed after approval of this plan by the U.S. EPA based on contractor availability.

## **4.3 Health and Safety Plan**

All field work will be performed in accordance with Site-specific HASPs prepared for the Site by GHD and the environmental services contractor.

## **4.4 Project Consultants and Contractors**

The consultants and contractors selected to work on the project are identified below along with contact information.

#### 4.4.1 Environmental Consultants

Douglas Soutter  
GHD Inc.  
6400 Shafer Court, Suite 400  
Rosemont, IL 60018  
Office: 773-380-9933  
Cell: Not

Bernadette Greenwood  
Tephra Environmental Compliance LLC  
P.O. Box 8  
Baraboo, WI 53913  
Work: 608-448-2024  
Cell: Not

#### 4.4.2 Project Laboratory

Accutest Laboratories of New England  
50 D'Angelo Drive  
495 Technology Center West  
Building One  
Marlborough, Massachusetts 01752  
Phone: 508-481-6200  
Fax: 508-481-7753

#### 4.4.3 Environmental Services Contractor

The environmental services contractor is responsible for loading soil from the stockpile onto trucks provided by the transportation contractor.

Jevon Poncez  
Environmental Management Alternatives (EMA)  
10627 Midwest Industrial Blvd.  
St. Louis, MO 63132  
Phone: 314-785-6425  
Cell: Not

#### 4.4.4 Transportation

Qualified transportation contractors will be selected prior to the initiation of field work. The transportation contractors will be responsible for trucking the wastes to the selected treatment and disposal facilities.

#### 4.4.5 Treatment Storage and Disposal Facilities

Wastes that are  $\geq 50$  mg/kg PCBs will be transported to the Heritage Landfill in Roachdale, Indiana.

Steve Cross, Strategic Accounts Manager 315-406-9342  
Heritage Environmental Services, LLC (Heritage)  
Heritage Roachdale Landfill  
4370 W County RD 1275 N  
Roachdale, IN 46172  
Subtitle C - IND980503890  
Business: 765-435-2704  
Business Fax: 765-435-3504



Wastes which do not exceed 50 mg/kg PCBs will be transported to the Clinton Landfill, Inc. facility in Clinton, Illinois.

Laura Skaggs, Technical Support Representative  
Peoria Disposal Company  
Clinton Landfill, Inc.  
9550 Heritage Road  
Clinton, IL 61727  
Phone: 217-935-8028 (scale house)  
Fax: 217-935-5602

## 4.5 Waste Characterization and Waste Profiles

Tephra will make arrangements with and secure approvals from the project treatment, storage, and disposal facilities prior to the commencement of field activities. This will include the submission of relevant analytical reports and waste profile information to the landfills. The profiles will include:

- Soil/fill waste  $\geq 50$  ppm PCBs with associated tarps and discarded personal protective equipment (PPE)
- Soil/fill waste  $< 50$  ppm PCBs with associated tarps and discarded PPE
- Wash water, rinse water, and associated sediment from the decontamination of the concrete pad (including rainwater if encountered), equipment decontamination, and personnel decontamination

## 4.6 Traffic Control Plan

The Site is an active scrap metal processing facility and has accommodations for heavy truck traffic.

The remediation loadout will involve a maximum of approximately 11 trucks per day during our peak activity. The trucks will enter the facility using the main gate and will be diverted towards the stockpile area prior to the scale house.

Any trucks that come on site but do not enter the exclusion zones or the Contaminant Reduction Zone will not require decontamination. The loadout of trucks carrying impacted soils to the landfills will take place so that the tires of the trucks do not come in contact with the contaminated soils. Any vehicle that leaves the Exclusion Zone or the Contaminant Reduction Zone will be decontaminated prior to leaving the work site.

Public safety will remain a priority. If GHD believes the traffic management is not adequate, we will use our stop work authority until we are able to implement any necessary modifications.

## 4.7 Technical Approach to Soil Work

This section will discuss the setup of the project infrastructure and controls as well as the overall sequence of events that will be performed.

The project will be performed in the following phases:

- Mobilization and Site preparation
- Loading and transport of South Pile soil/fill with  $< 50$  mg/kg PCBs

- Loading and transport of North Pile soil/fill with  $\geq 50$  mg/kg PCBs
- Decontamination of concrete slab and equipment
- Demobilization and project closeout

A stockpile loading plan is provided as Figure 4.

#### 4.7.1 Mobilization and Site Preparation

In preparation for Site work, EMA will mobilize earth moving equipment, personnel, decontamination facilities, and supporting equipment to the project site prior to the beginning of the project work.

The stockpile area will be divided into a Northern Exclusion Zone (containing  $\geq 50$  ppm PCBs), a Southern Exclusion Zone containing  $< 50$  ppm PCBs), a Contaminant Reduction Zone, and a Support Zone. Each zone will be demarcated using caution tape, construction fencing, or other access control measures. Details of each zone are provided below.

##### 4.7.1.1 Southern Exclusion Zone ( $< 50$ ppm PCB)

The Southern Exclusion Zone will encompass areas where the loadout of the South Pile ( $< 50$  ppm PCB-impacted material) will be performed. The Southern Exclusion Zone will be clearly marked and protected from unauthorized entry. No one will enter the Southern Exclusion Zone without appropriate PPE, safety training, site specific orientation, Occupational Safety and Health Administration (OSHA) 40 Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training, and familiarity with the HASP.

##### 4.7.1.1 Northern Exclusion Zone ( $\geq 50$ ppm PCB)

The Northern Exclusion Zone will encompass areas where the loadout of the North Pile ( $\geq 50$  ppm PCB-impacted material) will be performed. The Northern Exclusion Zone will be clearly marked and protected from unauthorized entry. No one will enter the Northern Exclusion Zone without appropriate PPE, safety training, site specific orientation, OSHA 40 Hour HAZWOPER training, and familiarity with the HASP.

##### 4.7.1.2 Contamination Reduction Zone

The Contamination Reduction Zone will transition from the exclusion zones to the Support Zone and will house a personnel decontamination area and an equipment decontamination pad. The Contaminant Reduction Zone will be situated in a way that allows the South Pile to be loaded first.

The personnel decontamination area will be equipped with water, boot wash, first aid kit, clean PPE, and containers for spent PPE. Waste PPE will be loaded out daily with material going off site for disposal. This will be indicated on the manifest and the waste profile. Drums or storage tanks will be provided to capture and contain rinse waters generated by the personnel decontamination facility. Contaminated rinse water will be stored on-Site pending the disposal of liquid wastes.

The equipment decontamination pads will be constructed to accommodate the equipment (e.g., loaders, excavators) prior to exiting exclusion zones. The pad will consist of a bermed area with floors and berms covered with an impermeable liner overlain with vehicle-grade matting to prevent punctures or rips. The decontamination pad will be graded to a collection sump to allow decontamination rinse water to be captured and routed to a drum or storage tank pending the

disposal of liquid wastes. Residual soil or waste materials generated during decontamination will be reintroduced with the remaining stockpiled material for transport to the appropriate disposal facility with a subsequent load.

EMA will minimize the amount of equipment requiring decontamination by loading the trucks carrying impacted soils to the landfill over the exclusion zone fencing. All vehicles exiting the work area will be inspected to ensure that the vehicles are free of contamination prior to being released for transport. EMA will perform the majority of the excavation work within the exclusion zones using the same equipment for the duration of the project so that equipment will only need to be decontaminated once at the end of the project.

#### **4.7.1.1 Support Zone**

The Support Zone may contain field trailers, equipment staging, and areas for Site personnel and visitors to park vehicles and conduct activities outside work areas. A vehicle or field trailer will serve as the communication center for emergency situations and to provide a controlled environment for communications, administrative operations, and a point of contact location.

#### **4.7.1.2 Establishment of Site Security**

Construction fencing or caution tape will be installed to encompass the work zones. Work zones will only be accessible to authorized personnel entering through the Support Zone. All Site visitors will be required read and sign the HASP and sign the Site Visitor Log. Behr Site personnel will secure the entire facility at night using the existing fencing and gates.

#### **4.7.2 Loading of Soil/Fill Materials onto Trucks**

The loadout will commence with the South Pile. Soil in the North Pile will not be disturbed until the South Pile loadout is complete.

##### **4.7.2.1 South Pile (<50 mg/kg PCBs)**

This section of the work plan will discuss the details of the loading, transportation, and off-Site disposal of the southern half of the soil/fill stockpile which did not exceed 50 mg/kg of PCBs. This portion is estimated to be approximately 750 cubic yards (1,000 tons) of material. The soil/fill loadout will be complete when the concrete slab is prepared for power washing.

The South Pile will be loaded onto trucks and transported as Special Waste to the Clinton Landfill, Inc. landfill in Clinton, Illinois. All wastes will be shipped using Unified Hazardous Waste Management forms.

##### **4.7.2.1 North Pile (≥50 mg/kg PCBs)**

This section of the work plan will discuss the details of the loading, transportation, and off-Site disposal of the northern half of the soil/fill stockpile with concentrations of PCBs ≥ 50 mg/kg. This portion is estimated to be approximately 750 cubic yards (1,000 tons) of material. The soil/fill loadout will be complete when the concrete slab is prepared for power washing.

The North Pile will be loaded onto trucks and transported as TSCA waste to the Heritage Environmental Services, LLC facility in Roachdale, Indiana. All wastes will be shipped using Unified Hazardous Waste Management forms.

#### 4.7.3 Water Management

Wastewater will be generated during the field work including wash water, rinse water (and rainwater if encountered) associated with personnel decontamination, equipment decontamination, and decontamination of the concrete pad. The wastewater will be stored in drums or tanks at the Site. Upon completion of the decontamination activities, the stored wastewater will be characterized under RCRA and TSCA and then transported to an appropriate facility for treatment and disposal. The wastewater will be shipped using appropriate waste stream manifest protocols.

#### 4.7.4 Equipment and Personnel Decontamination

All equipment and personnel exiting the exclusion zones will go through the Contaminant Reduction Zone. Spent PPE will be collected in garbage bags and the bags will be disposed of with the loads of material that are being sent off Site. All of the equipment leaving the site will be decontaminated using low volume pressure washers. All wastewater will be collected in drums or tanks as described above.

#### 4.7.5 Decontamination of the Concrete Slab and Verification Sampling

After the loadout of the stockpiled soil is complete, the concrete slab will be prepared for decontamination by constructing water runoff control features on the downgradient portion of the slab (e.g., sump pumps and bentonite berms or spill control equipment). The slab will then be decontaminated by washing with water and non-foaming detergent followed by a water rinse using low volume pressure washers. All the wash and rinse water will be collected and stored pending off-Site treatment and disposal.

An organic rinse (e.g., kerosene) will not be used due to the negligible benefit and concerns of releases and fire hazards (Behr operations use cutting torches near the stockpile).

After the slab has dried to the point where there is no standing water, concrete core samples will be collected and submitted for analysis of PCBs<sup>2</sup>. Three core samples will be collected in the Northern Exclusion Zone and three core samples will be collected in the Southern Exclusion Zone. The results of the core samples will be used to verify that the cleanup is complete.

#### 4.7.6 Demobilization and Project Closeout

Following completion of remedial activities, EMA will remove equipment, materials, and temporary facilities from the Site. Temporary structures, support zones, and decontamination areas will be disassembled and the components will be properly disposed of off Site.

A final Site inspection will be performed by the engineer to ensure the Site has been restored to a condition that is satisfactory to the Behr, IBS, Tephra, and GHD.

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<sup>2</sup> The wipe sample approaches specified in 40 CFR 761.30 and 761.79 cannot be used because liquid PCBs were not spilled onto the slab (40 CFR 761.30(p)) and the stockpile was on the concrete slab for more than 72 hours (40 CFR 761.79(b)(4)).



## 5. Owner's Written Certification

The written certification, signed by the owner of the property where the cleanup site is located (IBS) and the party conducting the cleanup (Behr) required under 40 CFR 761.61(a)(3)(i)(E) is provided in Appendix F.

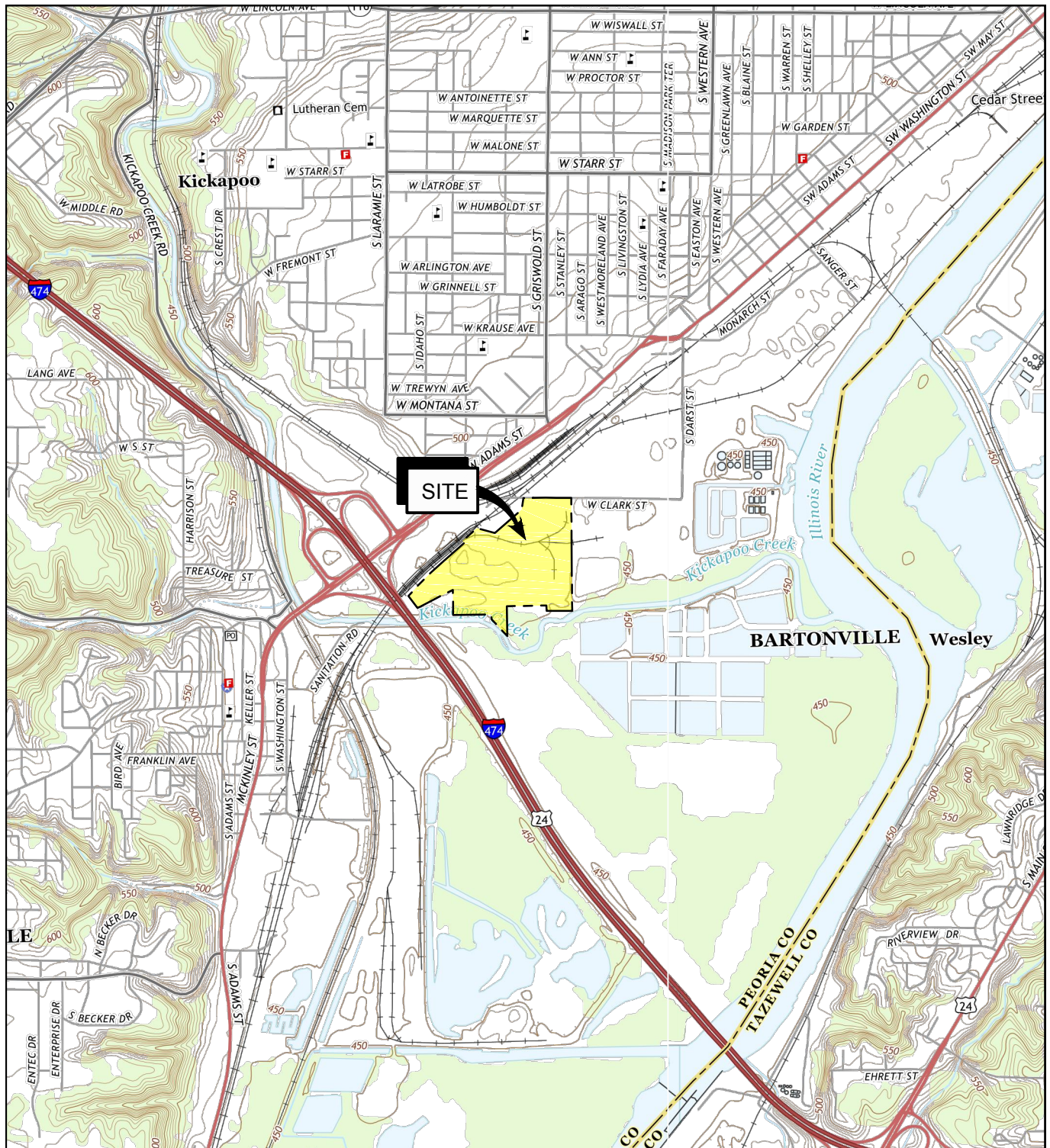
## 6. References

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**Cápiro, Mirtha. 2014.** Email to Bernadette Scheller regarding Behr's proposed PCB waste characterization. Chicago : U.S. Environmental Protection Agency, December 17, 2014.

**Helsten, Charles F. 2015.** Letter to Todd R. Wiener regarding PCB Remediation Action (2424 West Clark Street, Peoria, Illinois). Rockford : Hinshaw & Culbertson, LLP, February 19, 2015.

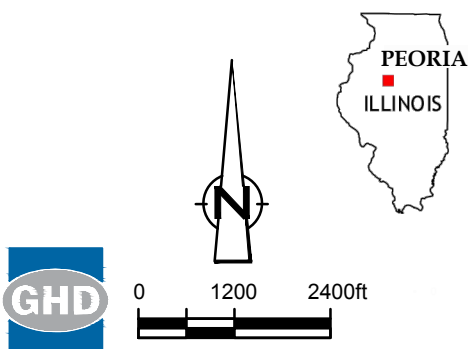
**Jordon, David P. 2014.** Peoria Area Rail Users 2014 - Behr Iron & Metal. *Peoria Station*. [Online] November 3, 2014. [Cited: August 27, 2015.] <http://peoriastation.com/?p=1549>.



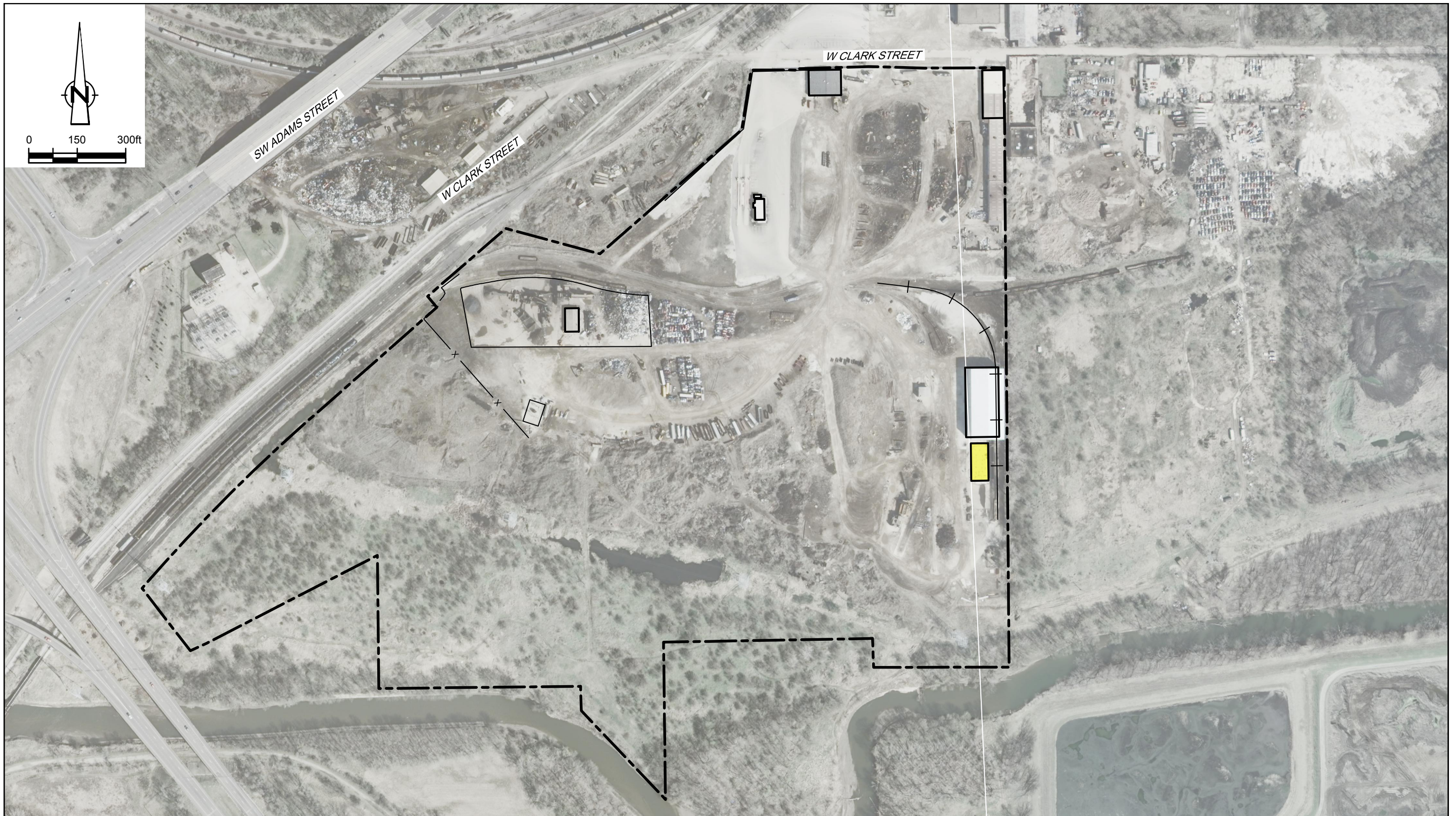
BASE SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE;  
PEORIA EAST AND PEORIA WEST, ILLINOIS 2015

figure 1

**SITE LOCATION**  
**BEHR PEORIA, INC.**  
**2424 WEST CLARK STREET**  
*Peoria, Illinois*







LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- SOIL STOCKPILE



figure 2  
 SITE PLAN  
 BEHR PEORIA, INC.  
 2424 WEST CLARK STREET  
 Peoria, Illinois



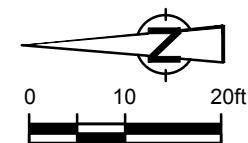
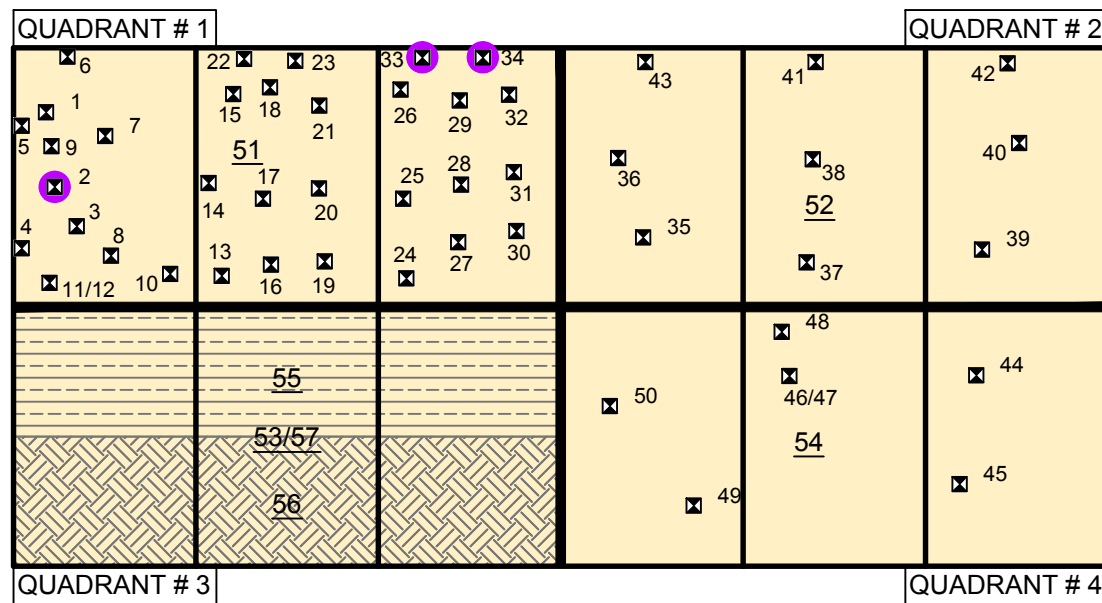


figure 3  
SOIL SAMPLE LOCATIONS  
BEHR PEORIA, INC.  
2424 WEST CLARK STREET  
Peoria, Illinois



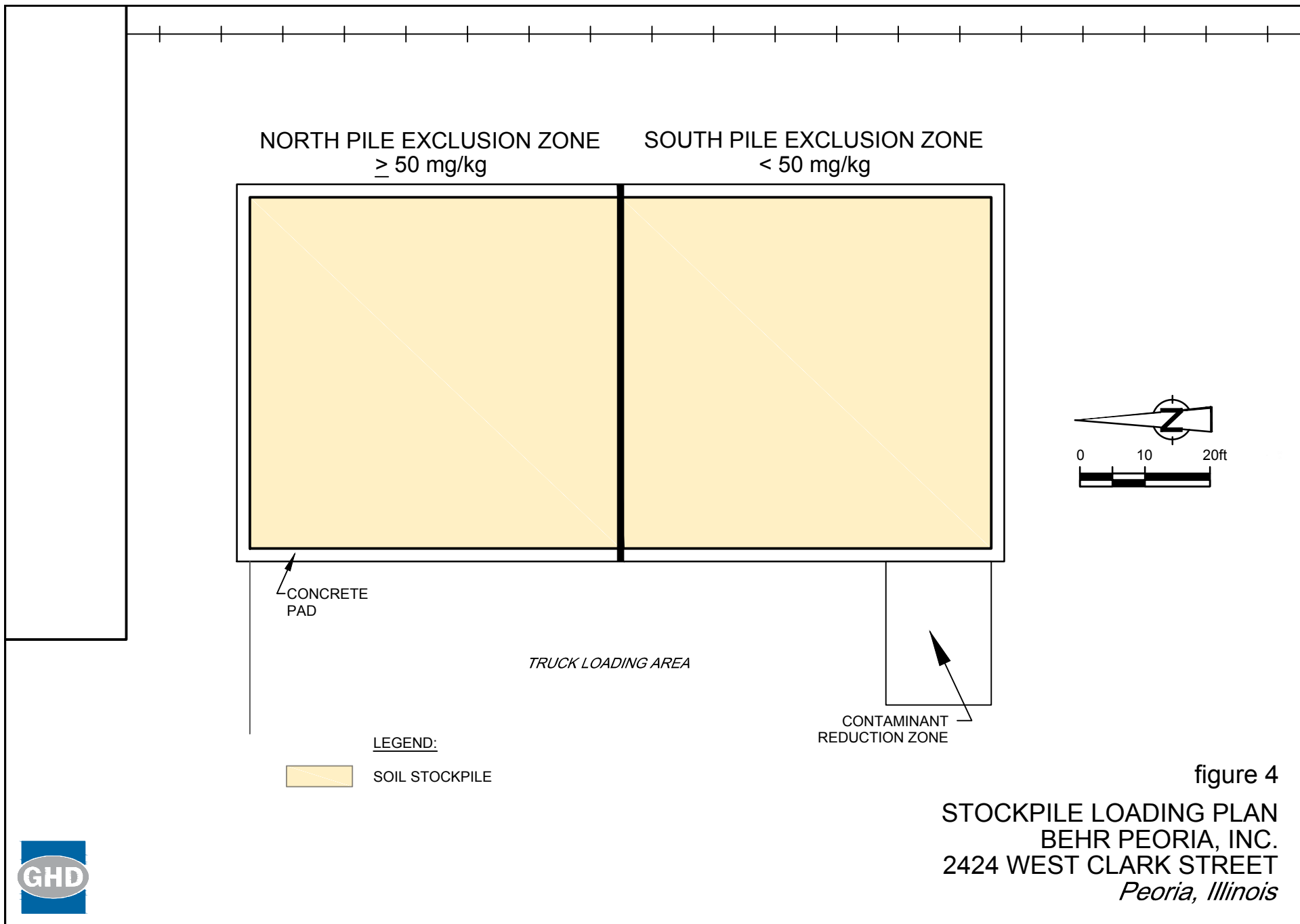


Table 1

**Sample Key**  
**August 2015 Soil Sampling**  
**Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

GHD Sample Number	Location Identifier	Quadrant <sup>1</sup>	Section <sup>2</sup>	Sample Elevation (feet above concrete pad)	Sample Matrix	Date Collected	Time Collected	QA / QC <sup>3</sup>	Analyses	Notes
S - 082615 - GW - 01	1	1	1	6	Soil	8/26/2015	8:49 AM	-	PCBs <sup>4</sup>	
S - 082615 - GW - 02	2	1	1	5	Soil	8/26/2015	9:04 AM	-	PCBs	
S - 082615 - GW - 03	3	1	1	6	Soil	8/26/2015	9:11 AM	-	PCBs	
S - 082615 - GW - 04	4	1	1	2	Soil	8/26/2015	9:22 AM	-	PCBs	
S - 082615 - GW - 05	5	1	1	2	Soil	8/26/2015	9:26 AM	-	PCBs	
S - 082615 - GW - 06	6	1	1	1	Soil	8/26/2015	9:40 AM	-	PCBs	
S - 082615 - GW - 07	7	1	1	6	Soil	8/26/2015	9:58 AM	-	PCBs	
S - 082615 - GW - 08	8	1	1	6	Soil	8/26/2015	10:02 AM	-	PCBs	
S - 082615 - GW - 09	9	1	1	6	Soil	8/26/2015	10:08 AM	-	PCBs	
S - 082615 - GW - 10	10	1	1	6	Soil	8/26/2015	10:15 AM	-	PCBs	
S - 082615 - GW - 11	11	1	1	6	Soil	8/26/2015	10:20 AM	-	PCBs	
S - 082615 - GW - 12	12	1	1	6	Soil	8/26/2015	10:23 AM	Duplicate	PCBs	
S - 082615 - GW - 13	13	1	2	6	Soil	8/26/2015	10:27 AM		PCBs	
S - 082615 - GW - 14	14	1	2	6	Soil	8/26/2015	10:32 AM	-	PCBs	
S - 082615 - GW - 15	15	1	2	6	Soil	8/26/2015	10:39 AM	-	PCBs	
S - 082615 - GW - 16	16	1	2	6	Soil	8/26/2015	10:43 AM	-	PCBs	
S - 082615 - GW - 17	17	1	2	6	Soil	8/26/2015	10:59 AM	-	PCBs	
S - 082615 - GW - 18	18	1	2	6	Soil	8/26/2015	11:07 AM	-	PCBs	
S - 082615 - GW - 19	19	1	2	6	Soil	8/26/2015	11:10 AM	-	PCBs	
S - 082615 - GW - 20	20	1	2	6	Soil	8/26/2015	11:13 AM	-	PCBs	
S - 082615 - GW - 21	21	1	2	6	Soil	8/26/2015	11:17 AM	-	PCBs	
S - 082615 - GW - 22	22	1	2	1	Soil	8/26/2015	11:35 AM	-	PCBs	
S - 082615 - GW - 23	23	1	2	1	Soil	8/26/2015	11:45 AM	-	PCBs	
S - 082615 - GW - 24	24	1	3	6	Soil	8/26/2015	12:59 PM	-	PCBs	
S - 082615 - GW - 25	25	1	3	6	Soil	8/26/2015	1:04 PM	-	PCBs	
S - 082615 - GW - 26	26	1	3	6	Soil	8/26/2015	1:12 PM	-	PCBs	
S - 082615 - GW - 27	27	1	3	6	Soil	8/26/2015	1:15 PM	-	PCBs	
S - 082615 - GW - 28	28	1	3	6	Soil	8/26/2015	1:19 PM	-	PCBs	
S - 082615 - GW - 29	29	1	3	6	Soil	8/26/2015	1:24 PM	-	PCBs	
S - 082615 - GW - 30	30	1	3	6	Soil	8/26/2015	1:43 PM	-	PCBs	
S - 082615 - GW - 31	31	1	3	6	Soil	8/26/2015	1:49 PM	-	PCBs	
S - 082615 - GW - 32	32	1	3	5.5	Soil	8/26/2015	1:52 PM	-	PCBs	
S - 082615 - GW - 33	33	1	3	1	Soil	8/26/2015	2:08 PM	-	PCBs	
S - 082615 - GW - 34	34	1	3	1	Soil	8/26/2015	2:14 PM	-	PCBs	
S - 082615 - GW - 35	35	2	1	6	Soil	8/26/2015	2:21 PM	-	PCBs	
S - 082615 - GW - 36	36	2	1	6	Soil	8/26/2015	2:25 PM	-	PCBs	
S - 082615 - GW - 37	37	2	2	6	Soil	8/26/2015	2:32 PM	-	PCBs	
S - 082615 - GW - 38	38	2	2	6	Soil	8/26/2015	2:35 PM	-	PCBs	
S - 082615 - GW - 39	39	2	3	6	Soil	8/26/2015	2:41 PM	-	PCBs	
S - 082615 - GW - 40	40	2	3	4.5	Soil	8/26/2015	2:48 PM	-	PCBs	

Table 1

**Sample Key**  
**August 2015 Soil Sampling**  
**Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

GHD Sample Number	Location Identifier	Quadrant <sup>1</sup>	Section <sup>2</sup>	Sample Elevation (feet above concrete pad)	Sample Matrix	Date Collected	Time Collected	QA / QC <sup>3</sup>	Analyses	Notes
S - 082615 - GW - 41	41	2	2	1	Soil	8/26/2015	3:08 PM	-	PCBs	
S - 082615 - GW - 42	42	2	3	1	Soil	8/26/2015	3:11 PM	-	PCBs	
S - 082715 - GW - 43	43	2	1	1.5	Soil	8/27/2015	7:36 AM	-	PCBs	
S - 082715 - GW - 44	44	4	3	6	Soil	8/27/2015	7:44 AM	-	PCBs	
S - 082715 - GW - 45	45	4	3	6	Soil	8/27/2015	7:48 AM	-	PCBs	
S - 082715 - GW - 46	46	4	2	6	Soil	8/27/2015	7:52 AM	-	PCBs	
S - 082715 - GW - 47	47	4	2	6	Soil	8/27/2015	7:56 AM	Duplicate	PCBs	
S - 082715 - GW - 48	48	4	2	6	Soil	8/27/2015	7:59 AM	-	PCBs	
S - 082715 - GW - 49	49	4	1	6	Soil	8/27/2015	8:04 AM	-	PCBs	
S - 082715 - GW - 50	50	4	1	6	Soil	8/27/2015	8:08 AM	-	PCBs	
S - 082715 - GW - 51	51 (composite)	1	1, 2, & 3	6	Soil	8/27/2015	9:14 AM	-	RCRA Parameters <sup>5</sup>	
S - 082715 - GW - 52	52 (composite)	2	1, 2, & 3	6	Soil	8/27/2015	9:23 AM	-	RCRA Parameters	
S - 082715 - GW - 53	53 (composite)	3	1, 2, & 3	6	Soil	8/27/2015	9:32 AM	-	RCRA Parameters	
S - 082715 - GW - 54	54 (composite)	4	1, 2, & 3	6	Soil	8/27/2015	9:44 AM	-	RCRA Parameters	
S - 082715 - GW - 55	55 (composite)	3	1, 2, & 3 (East Side)	6	Soil	8/27/2015	10:24 AM	-	Landfill 6 <sup>6</sup>	Collected for Heritage <sup>7</sup>
S - 082715 - GW - 56	56 (composite)	3	1, 2, & 3 (West Side)	6	Soil	8/27/2015	10:33 AM	-	Landfill 6	Collected for Heritage
S - 082715 - GW - 57	57 (composite)	3	1, 2, & 3	6	Soil	8/27/2015	10:38 AM	-	PCBs	Collected for Heritage

**Notes:**

<sup>1</sup>Quadrant 1 is the northeast quadrant. Quadrant 2 is the southeast quadrant. Quadrant 3 is the northwest quadrant. Quadrant 4 is the southwest quadrant.

<sup>2</sup>Each quadrant was divided into 3 sections. Section 1 is the northern section. Section 2 is the central section. Section 3 is the southern section.

<sup>3</sup>QA/QC - Quality Assurance/Quality Control

<sup>4</sup>PCBs - polychlorinated biphenyls

<sup>5</sup>The 'RCRA Parameter' list includes: toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs), TCLP semivolatile organic compounds (SVOCs), TCLP metals, TCLP herbicides, TCLP pesticides, reactive cyanide, reactive sulfide, phenols, bulk density, total solids, flashpoint, pH, and extractable organic halides (EOX)

<sup>6</sup>'Landfill 6' is a parameter list selected by Heritage

<sup>7</sup>Samples collected at the request Heritage Environmental Services for their own independent analysis. GHD does not expect to receive the analytical results of these samples.



Table 2

**Analytical Results Summary of PCBs, August 2015 Soil Sampling  
Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

Location ID:			1	2	3	4	5	6	7	8	9
Sample Name:			S-082615-GW-01	S-082615-GW-02	S-082615-GW-03	S-082615-GW-04	S-082615-GW-05	S-082615-GW-06	S-082615-GW-07	S-082615-GW-08	S-082615-GW-09
Sample Date:			8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015
Elevation (feet above concrete slab):			6	5	6	2	2	1	6	6	6
			TSCA Threshold Limit a								
Parameters	Units										
Pesticides/PCBs											
Aroclor-1016 (PCB-1016)	mg/kg	50	0.036 U	0.04 U	0.036 U	0.036 U	0.037 U	0.037 U	0.035 U	0.036 U	0.036 U
Aroclor-1221 (PCB-1221)	mg/kg	50	0.036 U	0.04 U	0.036 U	0.036 U	0.037 U	0.037 U	0.035 U	0.036 U	0.036 U
Aroclor-1232 (PCB-1232)	mg/kg	50	0.036 U	0.04 U	0.036 U	0.036 U	0.037 U	0.037 U	0.035 U	0.036 U	0.036 U
Aroclor-1242 (PCB-1242)	mg/kg	50	0.036 U	0.04 U	0.036 U	0.036 U	0.037 U	0.037 U	0.035 U	0.036 U	0.036 U
Aroclor-1248 (PCB-1248)	mg/kg	50	6.77	42.9	15.2	12.5	11	5.13	4.07	5.3	8.98
Aroclor-1254 (PCB-1254)	mg/kg	50	10.1	38.9	13	14.8	15.9	5.74	7.38	7.9	11.7
Aroclor-1260 (PCB-1260)	mg/kg	50	2.34	3.97 J	2.62 J	3.1 J	3.14 J	1.3	1.64	2.03	2.33
Total PCBs	mg/kg	50	19	90 <sup>a</sup>	31	30	30	12	13	15	23

Location ID:			10	11	12	13	14	15	16	17	18
Sample Name:			S-082615-GW-10	S-082615-GW-11	S-082615-GW-12	S-082615-GW-13	S-082615-GW-14	S-082615-GW-15	S-082615-GW-16	S-082615-GW-17	S-082615-GW-18
Sample Date:			8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015
Elevation (feet above concrete slab):			6	6	6	6	6	6	6	6	6
			TSCA Threshold Limit a								
Parameters	Units										
Pesticides/PCBs											
Aroclor-1016 (PCB-1016)	mg/kg	50	0.036 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.037 U	0.036 U	0.037 U
Aroclor-1221 (PCB-1221)	mg/kg	50	0.036 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.037 U	0.036 U	0.037 U
Aroclor-1232 (PCB-1232)	mg/kg	50	0.036 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.037 U	0.036 U	0.037 U
Aroclor-1242 (PCB-1242)	mg/kg	50	0.036 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.037 U	0.036 U	0.037 U
Aroclor-1248 (PCB-1248)	mg/kg	50	8.04	3.45	2.8	7.45	16.5	8.02	7.11	2	2.72
Aroclor-1254 (PCB-1254)	mg/kg	50	12.2	4.2	3.48	12.5	19.8	11	13.6	4.15	4.71
Aroclor-1260 (PCB-1260)	mg/kg	50	3	1.56	1.12	3.12	3.13 J	2.65	4.17	1.04	1.26 J
Total PCBs	mg/kg	50	23	9.2	7.4	23	39	22	25	7.2	8.7

Table 2

**Analytical Results Summary of PCBs, August 2015 Soil Sampling  
Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

<b>Location ID:</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>Sample Name:</b>	<b>S-082615-GW-19</b>	<b>S-082615-GW-20</b>	<b>S-082615-GW-21</b>	<b>S-082615-GW-22</b>	<b>S-082615-GW-23</b>	<b>S-082615-GW-24</b>	<b>S-082615-GW-25</b>	<b>S-082615-GW-26</b>	<b>S-082615-GW-27</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Elevation (feet above concrete slab):</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>

<b>Parameters</b>	<b>Units</b>									
<b>Pesticides/PCBs</b>										
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.037 U	0.035 U	0.037 U	0.038 U	0.039 U	0.036 U	0.036 U	0.037 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.037 U	0.035 U	0.037 U	0.038 U	0.039 U	0.036 U	0.036 U	0.037 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.037 U	0.035 U	0.037 U	0.038 U	0.039 U	0.036 U	0.036 U	0.037 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.037 U	0.035 U	0.037 U	0.038 U	0.039 U	0.036 U	0.036 U	0.037 U
Aroclor-1248 (PCB-1248)	mg/kg	9.48	15.7 J	13.4	6.32	6.1	7.77	10.9	10.7	11.5
Aroclor-1254 (PCB-1254)	mg/kg	13.5	17.3	18.7	13	9.21	9.8	9.79	14.1	13.8
Aroclor-1260 (PCB-1260)	mg/kg	3.14	2.25	4.14	3.11	1.83	2.18	2.36	3.35	2.93
Total PCBs	mg/kg	26	35	36	22	17	20	23	28	28

<b>Location ID:</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>
<b>Sample Name:</b>	<b>S-082615-GW-28</b>	<b>S-082615-GW-29</b>	<b>S-082615-GW-30</b>	<b>S-082615-GW-31</b>	<b>S-082615-GW-32</b>	<b>S-082615-GW-33</b>	<b>S-082615-GW-34</b>	<b>S-082615-GW-35</b>	<b>S-082615-GW-36</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Elevation (feet above concrete slab):</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>5.5</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>6</b>

<b>Parameters</b>	<b>Units</b>									
<b>Pesticides/PCBs</b>										
Aroclor-1016 (PCB-1016)	mg/kg	0.036 U	0.036 U	0.037 U	0.035 U	0.038 U	0.038 U	0.039 U	0.036 U	0.037 U
Aroclor-1221 (PCB-1221)	mg/kg	0.036 U	0.036 U	0.037 U	0.035 U	0.038 U	0.038 U	0.039 U	0.036 U	0.037 U
Aroclor-1232 (PCB-1232)	mg/kg	0.036 U	0.036 U	0.037 U	0.035 U	0.038 U	0.038 U	0.039 U	0.036 U	0.037 U
Aroclor-1242 (PCB-1242)	mg/kg	0.036 U	0.036 U	0.037 U	0.035 U	0.038 U	0.038 U	0.039 U	0.036 U	0.037 U
Aroclor-1248 (PCB-1248)	mg/kg	7.85	13.2	11.3	8.26	21.3	22.7	20.6	6.12	8.54
Aroclor-1254 (PCB-1254)	mg/kg	12.4	17.5	15	12.2	22.1	39.8	69.1 <sup>a</sup>	10.8	14.1
Aroclor-1260 (PCB-1260)	mg/kg	2.82	4.46	2.69	2.86	3.41	5.93	8.79	4.31	3.01
Total PCBs	mg/kg	23	35	29	23	47	68 <sup>a</sup>	99 <sup>a</sup>	21	26

Table 2

Analytical Results Summary of PCBs, August 2015 Soil Sampling  
Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois

Location ID:	37	38	39	40	41	42	43	44	45	46
Sample Name:	S-082615-GW-37	S-082615-GW-38	S-082615-GW-39	S-082615-GW-40	S-082615-GW-41	S-082615-GW-42	S-082715-GW-43	S-082715-GW-44	S-082715-GW-45	S-082715-GW-46
Sample Date:	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/27/2015	8/27/2015	8/27/2015	8/27/2015
Elevation (feet above concrete slab):	6	6	6	4.5	1	1	1.5	6	6	6

ParametersUnits

Pesticides/PCBs											
Aroclor-1016 (PCB-1016)	mg/kg	0.036 U	0.036 U	0.04 U	0.04 U	0.036 U	0.036 U	0.035 U	0.035 U	0.041 U	0.042 U
Aroclor-1221 (PCB-1221)	mg/kg	0.036 U	0.036 U	0.04 U	0.04 U	0.036 U	0.036 U	0.035 U	0.035 U	0.041 U	0.042 U
Aroclor-1232 (PCB-1232)	mg/kg	0.036 U	0.036 U	0.04 U	0.04 U	0.036 U	0.036 U	0.035 U	0.035 U	0.041 U	0.042 U
Aroclor-1242 (PCB-1242)	mg/kg	0.036 U	0.036 U	0.04 U	0.04 U	0.036 U	0.036 U	0.035 U	0.035 U	0.041 U	0.042 U
Aroclor-1248 (PCB-1248)	mg/kg	9.56	3.56	4.1	2.1	5.07	4.62	4.27	3.18	0.902	1.74
Aroclor-1254 (PCB-1254)	mg/kg	15.4	6.23	4.2	3.47	8.57	7.07	7.63	5.68	1.46	2.49
Aroclor-1260 (PCB-1260)	mg/kg	3.59	1.64	0.762	0.863	2.67	1.76	1.86	1.58	0.322	0.525
Total PCBs	mg/kg	29	11	9	6	16	14	14	10	2.7	4.8

Location ID:	47	48	49	50
Sample Name:	S-082715-GW-47	S-082715-GW-48	S-082715-GW-49	S-082715-GW-50
Sample Date:	8/27/2015	8/27/2015	8/27/2015	8/27/2015
Elevation (feet above concrete slab):	6	6	6	6

ParametersUnits

Pesticides/PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.036 U	0.036 U	0.036 U	0.035 U
Aroclor-1221 (PCB-1221)	mg/kg	0.036 U	0.036 U	0.036 U	0.035 U
Aroclor-1232 (PCB-1232)	mg/kg	0.036 U	0.036 U	0.036 U	0.035 U
Aroclor-1242 (PCB-1242)	mg/kg	0.036 U	0.036 U	0.036 U	0.035 U
Aroclor-1248 (PCB-1248)	mg/kg	8.72	10.9	4.01	4.97
Aroclor-1254 (PCB-1254)	mg/kg	11.6	28.2	6.71	9.61
Aroclor-1260 (PCB-1260)	mg/kg	2.57	4.15	1.62	2.24
Total PCBs	mg/kg	23	43	12	17

Notes:  
U - Not detected at the associated reporting limit  
J - Estimated concentration  
mg/kg - milligrams per kilogram  
**Bold** indicates an exceedence of the TSCA threshold limit

Table 3

**Analytical Results Summary of PCBs, August 2015 Soil Sampling**  
**South Pile**  
**Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

Location ID: 35 36 37 38 39 40 41 42		
Sample Name: S-082615-GW-35 S-082615-GW-36 S-082615-GW-37 S-082615-GW-38 S-082615-GW-39 S-082615-GW-40 S-082615-GW-41 S-082615-GW-42		
Sample Date: 8/26/2015 8/26/2015 8/26/2015 8/26/2015 8/26/2015 8/26/2015 8/26/2015 8/26/2015		
levation (feet above concrete slab): 6 6 6 6 6 4.5 1 1		
TSCA Threshold Limit a		
Parameters	Units	
Pesticides/PCBs		
Aroclor-1016 (PCB-1016)	mg/kg	50 0.036 U 0.037 U 0.036 U 0.036 U 0.04 U 0.04 U 0.036 U 0.036 U
Aroclor-1221 (PCB-1221)	mg/kg	50 0.036 U 0.037 U 0.036 U 0.036 U 0.04 U 0.04 U 0.036 U 0.036 U
Aroclor-1232 (PCB-1232)	mg/kg	50 0.036 U 0.037 U 0.036 U 0.036 U 0.04 U 0.04 U 0.036 U 0.036 U
Aroclor-1242 (PCB-1242)	mg/kg	50 0.036 U 0.037 U 0.036 U 0.036 U 0.04 U 0.04 U 0.036 U 0.036 U
Aroclor-1248 (PCB-1248)	mg/kg	50 6.12 8.54 9.56 3.56 4.1 2.1 5.07 4.62
Aroclor-1254 (PCB-1254)	mg/kg	50 10.8 14.1 15.4 6.23 4.2 3.47 8.57 7.07
Aroclor-1260 (PCB-1260)	mg/kg	50 4.31 3.01 3.59 1.64 0.762 0.863 2.67 1.76
Total PCBs	mg/kg	50 21 26 29 11 9 6 16 14

Location ID: 43 44 45 46 47 48 49 50		
Sample Name: S-082715-GW-43 S-082715-GW-44 S-082715-GW-45 S-082715-GW-46 S-082715-GW-47 S-082715-GW-48 S-082715-GW-49 S-082715-GW-50		
Sample Date: 8/27/2015 8/27/2015 8/27/2015 8/27/2015 8/27/2015 8/27/2015 8/27/2015 8/27/2015		
levation (feet above concrete slab): 1.5 6 6 6 6 6 6 6		
TSCA Threshold Limit a		
Parameters	Units	
Pesticides/PCBs		
Aroclor-1016 (PCB-1016)	mg/kg	50 0.035 U 0.035 U 0.041 U 0.042 U 0.036 U 0.036 U 0.036 U 0.035 U
Aroclor-1221 (PCB-1221)	mg/kg	50 0.035 U 0.035 U 0.041 U 0.042 U 0.036 U 0.036 U 0.036 U 0.035 U
Aroclor-1232 (PCB-1232)	mg/kg	50 0.035 U 0.035 U 0.041 U 0.042 U 0.036 U 0.036 U 0.036 U 0.035 U
Aroclor-1242 (PCB-1242)	mg/kg	50 0.035 U 0.035 U 0.041 U 0.042 U 0.036 U 0.036 U 0.036 U 0.035 U
Aroclor-1248 (PCB-1248)	mg/kg	50 4.27 3.18 0.902 1.74 8.72 10.9 4.01 4.97
Aroclor-1254 (PCB-1254)	mg/kg	50 7.63 5.68 1.46 2.49 11.6 28.2 6.71 9.61
Aroclor-1260 (PCB-1260)	mg/kg	50 1.86 1.58 0.322 0.525 2.57 4.15 1.62 2.24
Total PCBs	mg/kg	50 14 10 2.7 4.8 23 43 12 17

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

mg/kg - milligrams per kilogram

Table 4

**Analytical Results Summary of PCBs, August 2015 Soil Sampling**  
**North Pile**  
**Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

Location ID:			1	2	3	4	5	6	7	8	9
Sample Name:			S-082615-GW-01	S-082615-GW-02	S-082615-GW-03	S-082615-GW-04	S-082615-GW-05	S-082615-GW-06	S-082615-GW-07	S-082615-GW-08	S-082615-GW-09
Sample Date:			8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015
Elevation (feet above concrete slab):			6	5	6	2	2	1	6	6	6
TSCA Threshold Limit a											
Parameters	Units										
Pesticides/PCBs											
Aroclor-1016 (PCB-1016)	mg/kg	50	0.036 U	0.04 U	0.036 U	0.036 U	0.037 U	0.037 U	0.035 U	0.036 U	0.036 U
Aroclor-1221 (PCB-1221)	mg/kg	50	0.036 U	0.04 U	0.036 U	0.036 U	0.037 U	0.037 U	0.035 U	0.036 U	0.036 U
Aroclor-1232 (PCB-1232)	mg/kg	50	0.036 U	0.04 U	0.036 U	0.036 U	0.037 U	0.037 U	0.035 U	0.036 U	0.036 U
Aroclor-1242 (PCB-1242)	mg/kg	50	0.036 U	0.04 U	0.036 U	0.036 U	0.037 U	0.037 U	0.035 U	0.036 U	0.036 U
Aroclor-1248 (PCB-1248)	mg/kg	50	6.77	42.9	15.2	12.5	11	5.13	4.07	5.3	8.98
Aroclor-1254 (PCB-1254)	mg/kg	50	10.1	38.9	13	14.8	15.9	5.74	7.38	7.9	11.7
Aroclor-1260 (PCB-1260)	mg/kg	50	2.34	3.97 J	2.62 J	3.1 J	3.14 J	1.3	1.64	2.03	2.33
Total PCBs	mg/kg	50	19	90 <sup>a</sup>	31	30	30	12	13	15	23

Location ID:			10	11	12	13	14	15	16	17	18
Sample Name:			S-082615-GW-10	S-082615-GW-11	S-082615-GW-12	S-082615-GW-13	S-082615-GW-14	S-082615-GW-15	S-082615-GW-16	S-082615-GW-17	S-082615-GW-18
Sample Date:			8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015	8/26/2015
Elevation (feet above concrete slab):			6	6	6	6	6	6	6	6	6
TSCA Threshold Limit a											
Parameters	Units										
Pesticides/PCBs											
Aroclor-1016 (PCB-1016)	mg/kg	50	0.036 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.037 U	0.036 U	0.037 U
Aroclor-1221 (PCB-1221)	mg/kg	50	0.036 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.037 U	0.036 U	0.037 U
Aroclor-1232 (PCB-1232)	mg/kg	50	0.036 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.037 U	0.036 U	0.037 U
Aroclor-1242 (PCB-1242)	mg/kg	50	0.036 U	0.037 U	0.036 U	0.035 U	0.037 U	0.036 U	0.037 U	0.036 U	0.037 U
Aroclor-1248 (PCB-1248)	mg/kg	50	8.04	3.45	2.8	7.45	16.5	8.02	7.11	2	2.72
Aroclor-1254 (PCB-1254)	mg/kg	50	12.2	4.2	3.48	12.5	19.8	11	13.6	4.15	4.71
Aroclor-1260 (PCB-1260)	mg/kg	50	3	1.56	1.12	3.12	3.13 J	2.65	4.17	1.04	1.26 J
Total PCBs	mg/kg	50	23	9.2	7.4	23	39	22	25	7.2	8.7

Table 4

**Analytical Results Summary of PCBs, August 2015 Soil Sampling  
North Pile  
Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

<b>Location ID:</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>
<b>Sample Name:</b>	S-082615-GW-19	S-082615-GW-20	S-082615-GW-21	S-082615-GW-22	S-082615-GW-23	S-082615-GW-24	S-082615-GW-25	S-082615-GW-26
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Elevation (feet above concrete slab):</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>6</b>	<b>6</b>

<b>Parameters</b>	<b>Units</b>								
<b>Pesticides/PCBs</b>									
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.037 U	0.035 U	0.037 U	0.038 U	0.039 U	0.036 U	0.036 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.037 U	0.035 U	0.037 U	0.038 U	0.039 U	0.036 U	0.036 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.037 U	0.035 U	0.037 U	0.038 U	0.039 U	0.036 U	0.036 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.037 U	0.035 U	0.037 U	0.038 U	0.039 U	0.036 U	0.036 U
Aroclor-1248 (PCB-1248)	mg/kg	9.48	15.7 J	13.4	6.32	6.1	7.77	10.9	10.7
Aroclor-1254 (PCB-1254)	mg/kg	13.5	17.3	18.7	13	9.21	9.8	9.79	14.1
Aroclor-1260 (PCB-1260)	mg/kg	3.14	2.25	4.14	3.11	1.83	2.18	2.36	3.35
Total PCBs	mg/kg	26	35	36	22	17	20	23	28

<b>Location ID:</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>
<b>Sample Name:</b>	S-082615-GW-27	S-082615-GW-28	S-082615-GW-29	S-082615-GW-30	S-082615-GW-31	S-082615-GW-32	S-082615-GW-33	S-082615-GW-34
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Elevation (feet above concrete slab):</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>5.5</b>	<b>1</b>	<b>1</b>

<b>Parameters</b>	<b>Units</b>								
<b>Pesticides/PCBs</b>									
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.036 U	0.036 U	0.037 U	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.036 U	0.036 U	0.037 U	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.036 U	0.036 U	0.037 U	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.036 U	0.036 U	0.037 U	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1248 (PCB-1248)	mg/kg	11.5	7.85	13.2	11.3	8.26	21.3	22.7	20.6
Aroclor-1254 (PCB-1254)	mg/kg	13.8	12.4	17.5	15	12.2	22.1	39.8	<b>69.1<sup>a</sup></b>
Aroclor-1260 (PCB-1260)	mg/kg	2.93	2.82	4.46	2.69	2.86	3.41	5.93	8.79
Total PCBs	mg/kg	28	23	35	29	23	47	<b>68<sup>a</sup></b>	<b>99<sup>a</sup></b>

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

mg/kg - milligrams per kilogram

**Red** indicates an exceedance of the TSCA threshold limit

Table 5

**Analytical Results Summary of RCRA Parameters, August 2015 Soil Sampling  
Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

Location ID: Sample Name: Sample Date: Elevation (feet above concrete pad):			51 S-082715-GW-51 8/27/2015 6	52 S-082715-GW-52 8/27/2015 6	53 S-082715-GW-53 8/27/2015 6	54 S-082715-GW-54 8/27/2015 6
RCRA-TCLP Hazardous Waste Criteria a						
Parameters	Units					
<b>Volatile Organic Compounds</b>						
Total organic halides (TOX)	mg/kg	--	24.3	21 U	37.7	23 U
<b>Volatile Organic Compounds, TCLP</b>						
1,1-Dichloroethene	mg/L	0.7	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane	mg/L	0.5	0.20 U	0.20 U	0.20 U	0.20 U
1,4-Dichlorobenzene	mg/L	7.5	0.20 U	0.20 U	0.20 U	0.20 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	200	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	mg/L	0.5	0.10 U	0.10 U	0.10 U	0.10 U
Carbon tetrachloride	mg/L	0.5	0.20 U	0.20 U	0.20 U	0.20 U
Chlorobenzene	mg/L	100	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform (Trichloromethane)	mg/L	6	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachloroethene	mg/L	0.7	0.20 U	0.20 U	0.20 U	0.20 U
Trichloroethene	mg/L	0.5	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl chloride	mg/L	0.2	0.20 U	0.20 U	0.20 U	0.20 U
<b>Semivolatile Organic Compounds, TCLP</b>						
1,4-Dichlorobenzene	mg/L	7.5	0.050 U	0.050 U	0.050 U	0.050 U
2,4,5-Trichlorophenol	mg/L	400	0.10 U	0.10 U	0.10 U	0.10 U
2,4,6-Trichlorophenol	mg/L	2	0.10 U	0.10 U	0.10 U	0.10 U
2,4-Dinitrotoluene	mg/L	0.13	0.10 U	0.10 U	0.10 U	0.10 U
2-Methylphenol	mg/L	200	0.10 U	0.10 U	0.10 U	0.10 U
3&4-Methylphenol	mg/L	200	0.10 U	0.10 U	0.10 U	0.10 U
Hexachlorobenzene	mg/L	0.13	0.050 U	0.050 U	0.050 U	0.050 U
Hexachlorobutadiene	mg/L	0.5	0.050 U	0.050 U	0.050 U	0.050 U
Hexachloroethane	mg/L	3	0.050 U	0.050 U	0.050 U	0.050 U
Nitrobenzene	mg/L	2	0.050 U	0.050 U	0.050 U	0.050 U
Pentachlorophenol	mg/L	100	0.10 U	0.10 U	0.10 U	0.10 U
Pyridine	mg/L	5	0.10 U	0.10 U	0.10 U	0.10 U
<b>Metals, TCLP</b>						
Arsenic	mg/L	5	0.010 U	0.010 U	0.010 U	0.010 U
Barium	mg/L	100	2.3	2.0	2.5	2.7
Cadmium	mg/L	1	0.19	0.11	0.13	0.14
Chromium	mg/L	5	0.0035	0.0033	0.0022	0.0029
Lead	mg/L	5	0.25	0.50	4.8	2.8
Mercury	mg/L	0.2	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Selenium	mg/L	1	0.025 U	0.025 U	0.025 U	0.025 U
Silver	mg/L	5	0.0050 U	0.0050 U	0.0050 U	0.0050 U
<b>Pesticides/PCBs, TCLP</b>						
Chlordane, technical	mg/L	0.03	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Endrin	mg/L	0.02	0.00050 U	0.00050 U	0.00050 U	0.00050 U
gamma-BHC (lindane)	mg/L	0.4	0.00050 U	0.00050 U	0.00050 U	0.00050 U
Heptachlor	mg/L	0.008	0.00050 U	0.00050 U	0.00050 U	0.00050 U
Heptachlor epoxide	mg/L	0.008	0.00050 U	0.00050 U	0.00050 U	0.00050 U
Methoxychlor	mg/L	10	0.00050 U	0.00050 U	0.00050 U	0.00050 U
Toxaphene	mg/L	0.5	0.025 U	0.025 U	0.025 U	0.025 U
<b>Herbicides, TCLP</b>						
2,4,5-TP (Silvex)	mg/L	1	0.010 U	0.010 U	0.010 U	0.010 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	10	0.010 U	0.010 U	0.010 U	0.010 U
<b>Wet Chemistry</b>						
Total solids	%	--	87.3	87.6	89.5	91.1
Ignitability	°F	<140	>230	>230	>230	>230
Phenolics (total)	mg/kg	--	2.7 U	2.8 U	2.7 U	2.7 U
Cyanide	mg/kg	--	--	0.13 UJ†	--	0.13 UJ†
Reactive cyanide	mg/kg	250	1.7 U	1.7 U	1.7 U	1.6 U
Reactive sulfide	mg/kg	500	57 U	57 U	55 U	54 U
Total solids	mg/kg	--	883000	866000	892000	907000
Paint filter	mL/100g	--	0.50 U	0.50 U	0.50 U	0.50 U
pH	s.u.	>2 and <12	8.0	8.3	8.2	8.1
<b>Geotechnical Parameters</b>						
Bulk density	g/mL	--	1.1	1.3	1.2	1.3

Notes:

U - Not detected at the associated reporting limit

mg/L - milligrams per liter

†Analysis performed past the recommended holding time

J - Estimated concentration

mg/kg - milligrams per kilogram



Table 6

**Analytical Results Summary of RCRA Parameters, August 2015 Soil Sampling  
South Pile  
Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

<b>Location ID:</b>		<b>52</b>	<b>54</b>
<b>Sample Name:</b>		<b>S-082715-GW-52</b>	<b>S-082715-GW-54</b>
<b>Sample Date:</b>		<b>8/27/2015</b>	<b>8/27/2015</b>
<b>Elevation (feet above concrete pad):</b>		<b>6</b>	<b>6</b>
		<b>RCRA-TCLP Hazardous Waste Criteria a</b>	
<b>Parameters</b>	<b>Units</b>		
<b>Volatile Organic Compounds</b>			
Total organic halides (TOX)	mg/kg	--	21 U
<b>Volatile Organic Compounds, TCLP</b>			
1,1-Dichloroethene	mg/L	0.7	0.20 U
1,2-Dichloroethane	mg/L	0.5	0.20 U
1,4-Dichlorobenzene	mg/L	7.5	0.20 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	200	1.0 U
Benzene	mg/L	0.5	0.10 U
Carbon tetrachloride	mg/L	0.5	0.20 U
Chlorobenzene	mg/L	100	0.20 U
Chloroform (Trichloromethane)	mg/L	6	0.20 U
Tetrachloroethene	mg/L	0.7	0.20 U
Trichloroethene	mg/L	0.5	0.20 U
Vinyl chloride	mg/L	0.2	0.20 U
<b>Semivolatile Organic Compounds, TCLP</b>			
1,4-Dichlorobenzene	mg/L	7.5	0.050 U
2,4,5-Trichlorophenol	mg/L	400	0.10 U
2,4,6-Trichlorophenol	mg/L	2	0.10 U
2,4-Dinitrotoluene	mg/L	0.13	0.10 U
2-Methylphenol	mg/L	200	0.10 U
3&4-Methylphenol	mg/L	200	0.10 U
Hexachlorobenzene	mg/L	0.13	0.050 U
Hexachlorobutadiene	mg/L	0.5	0.050 U
Hexachloroethane	mg/L	3	0.050 U
Nitrobenzene	mg/L	2	0.050 U
Pentachlorophenol	mg/L	100	0.10 U
Pyridine	mg/L	5	0.10 U
<b>Metals, TCLP</b>			
Arsenic	mg/L	5	0.010 U
Barium	mg/L	100	2.0
Cadmium	mg/L	1	0.11
Chromium	mg/L	5	0.0033
Lead	mg/L	5	0.50
Mercury	mg/L	0.2	0.00020 U
Selenium	mg/L	1	0.025 U
Silver	mg/L	5	0.0050 U
<b>Pesticides/PCBs, TCLP</b>			
Chlordane, technical	mg/L	0.03	0.0050 U
Endrin	mg/L	0.02	0.00050 U
gamma-BHC (lindane)	mg/L	0.4	0.00050 U
Heptachlor	mg/L	0.008	0.00050 U
Heptachlor epoxide	mg/L	0.008	0.00050 U
Methoxychlor	mg/L	10	0.00050 U
Toxaphene	mg/L	0.5	0.025 U
<b>Herbicides, TCLP</b>			
2,4,5-TP (Silvex)	mg/L	1	0.010 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	10	0.010 U
<b>Wet Chemistry</b>			
Total solids	%	--	87.6
Ignitability	°F	<140	>230
Phenolics (total)	mg/kg	--	2.8 U
Cyanide	mg/kg	--	0.13 UJ†
Reactive cyanide	mg/kg	250	1.7 U
Reactive sulfide	mg/kg	500	57 U
Total solids	mg/kg	--	866000
Paint filter	mL/100g	--	0.50 U
pH	s.u.	>2 and <12	8.3
<b>Geotechnical Parameters</b>			
Bulk density	g/mL	--	1.3

Notes:

U - Not detected at the associated reporting limit      mg/L - milligrams per liter

J - Estimated concentration      mg/kg - milligrams per kilogram

†Analysis performed past the recommended holding time

Table 7

**Analytical Results Summary of RCRA Parameters, August 2015 Soil Sampling**  
**North Pile**  
**Behr Peoria Inc, 2424 West Clark Street, Peoria, Illinois**

<b>Location ID:</b>			<b>51</b>	<b>53</b>
<b>Sample Name:</b>			<b>S-082715-GW-51</b>	<b>S-082715-GW-53</b>
<b>Sample Date:</b>			<b>8/27/2015</b>	<b>8/27/2015</b>
<b>Elevation (feet above concrete pad):</b>			<b>6</b>	<b>6</b>
		<b>RCRA-TCLP Hazardous Waste Criteria a</b>		
<b>Parameters</b>	<b>Units</b>			
<b>Volatile Organic Compounds</b>				
Total organic halides (TOX)	mg/kg	--	24.3	37.7
<b>Volatile Organic Compounds, TCLP</b>				
1,1-Dichloroethene	mg/L	0.7	0.20 U	0.20 U
1,2-Dichloroethane	mg/L	0.5	0.20 U	0.20 U
1,4-Dichlorobenzene	mg/L	7.5	0.20 U	0.20 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	200	1.0 U	1.0 U
Benzene	mg/L	0.5	0.10 U	0.10 U
Carbon tetrachloride	mg/L	0.5	0.20 U	0.20 U
Chlorobenzene	mg/L	100	0.20 U	0.20 U
Chloroform (Trichloromethane)	mg/L	6	0.20 U	0.20 U
Tetrachloroethene	mg/L	0.7	0.20 U	0.20 U
Trichloroethene	mg/L	0.5	0.20 U	0.20 U
Vinyl chloride	mg/L	0.2	0.20 U	0.20 U
<b>Semivolatile Organic Compounds, TCLP</b>				
1,4-Dichlorobenzene	mg/L	7.5	0.050 U	0.050 U
2,4,5-Trichlorophenol	mg/L	400	0.10 U	0.10 U
2,4,6-Trichlorophenol	mg/L	2	0.10 U	0.10 U
2,4-Dinitrotoluene	mg/L	0.13	0.10 U	0.10 U
2-Methylphenol	mg/L	200	0.10 U	0.10 U
3&4-Methylphenol	mg/L	200	0.10 U	0.10 U
Hexachlorobenzene	mg/L	0.13	0.050 U	0.050 U
Hexachlorobutadiene	mg/L	0.5	0.050 U	0.050 U
Hexachloroethane	mg/L	3	0.050 U	0.050 U
Nitrobenzene	mg/L	2	0.050 U	0.050 U
Pentachlorophenol	mg/L	100	0.10 U	0.10 U
Pyridine	mg/L	5	0.10 U	0.10 U
<b>Metals, TCLP</b>				
Arsenic	mg/L	5	0.010 U	0.010 U
Barium	mg/L	100	2.3	2.5
Cadmium	mg/L	1	0.19	0.13
Chromium	mg/L	5	0.0035	0.0022
Lead	mg/L	5	0.25	4.8
Mercury	mg/L	0.2	0.00020 U	0.00020 U
Selenium	mg/L	1	0.025 U	0.025 U
Silver	mg/L	5	0.0050 U	0.0050 U
<b>Pesticides/PCBs, TCLP</b>				
Chlordane, technical	mg/L	0.03	0.0050 U	0.0050 U
Endrin	mg/L	0.02	0.00050 U	0.00050 U
gamma-BHC (lindane)	mg/L	0.4	0.00050 U	0.00050 U
Heptachlor	mg/L	0.008	0.00050 U	0.00050 U
Heptachlor epoxide	mg/L	0.008	0.00050 U	0.00050 U
Methoxychlor	mg/L	10	0.00050 U	0.00050 U
Toxaphene	mg/L	0.5	0.025 U	0.025 U
<b>Herbicides, TCLP</b>				
2,4,5-TP (Silvex)	mg/L	1	0.010 U	0.010 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/L	10	0.010 U	0.010 U
<b>Wet Chemistry</b>				
Total solids	%	--	87.3	89.5
Ignitability	°F	<140	>230	>230
Phenolics (total)	mg/kg	--	2.7 U	2.7 U
Reactive cyanide	mg/kg	250	1.7 U	1.7 U
Reactive sulfide	mg/kg	500	57 U	55 U
Total solids	mg/kg	--	883000	892000
Paint filter	mL/100g	--	0.50 U	0.50 U
pH	s.u.	>2 and <12	8.0	8.2
<b>Geotechnical Parameters</b>				
Bulk density	g/mL	--	1.1	1.2

Notes:

U - Not detected at the associated reporting limit      mg/L - milligrams per liter  
J - Estimated concentration                                      mg/kg - milligrams per kilogram

# Appendices

# Appendix A

## 2014 PCB Remediation Waste Characterization and Disposal Plan

**PCB REMEDIATION WASTE CHARACTERIZATION  
AND DISPOSAL PLAN  
BEHR PEORIA, INC.  
2424 CLARK STREET  
PEORIA, ILLINOIS**

**Prepared for: Behr Iron and Metal  
1100 Seminary Street  
Rockford, Illinois 61105**

**Prepared by:**

**Tephra Environmental Compliance LLC**



**Tephra Project No.: 14005**

**November 2014**

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### FIGURES

Figure 1 – Site Location

Figure 2 – Location of PCB Remediation Waste

Figure 3 – Soil Sampling Plan for Statistical Analysis

### TABLE

Table 1 – May 2010 Soil Analytical Results (Data for Statistical Analysis)

### ATTACHMENTS

Attachment A – Site Photographs

Attachment B – Turnings Pit Construction Plan

Attachment C – Analytical Reports

**PCB REMEDIATION WASTE CHARACTERIZATION  
AND DISPOSAL WORK PLAN  
BEHR PEORIA, INC.  
2424 CLARK STREET  
PEORIA, ILLINOIS**

## **INTRODUCTION**

### **Purpose**

The purpose of this polychlorinated biphenyl (PCB) Waste Characterization and Disposal Plan (Work Plan) is to provide background information and to perform characterization of PCB-impacted material in accordance with Title 40 of the United States Code of Federal Regulations (40 CFR) Chapter I, Section 761.61(a) *Self-implementing on-site cleanup and disposal of PCB remediation waste* for off-site disposal in accordance with local, federal and state regulations.

This Work Plan has been prepared to outline waste characterization activities required prior to the disposal of approximately 1,300 cubic yards of material excavated from a concrete pit at the Behr Peoria, Inc. facility, 2424 Clark Street, Peoria, Illinois (hereinafter referred to as the "Site"). **Figure 1** depicts the location of the Site. **Figure 2** depicts the location of the staged PCB remediation waste.

### **Background**

The material was removed during a 2010 renovation of an approximate 100-foot x 40-foot x 9-foot concrete-lined pit by the site tenant, Behr Peoria, Inc. The concrete pit, previously containing processing equipment, was filled prior to tenant occupancy by others with an apparent mixture of auto fluff, soils and gravel (waste). The source of the materials is unknown, but suspected to originate from pre-1978 metal salvaging operations on-site by the former occupant (and current owner of the property), IBS, Inc. because the material is consistent with components that appear to be auto fluff. Although the material was most likely generated in relation to vehicle dismantling (auto fluff), in accordance with 40 CFR Part 761, Subpart D, the material is classified as PCB Remediation Waste as it contains soil and stone and was as a result of "unauthorized disposal."

The material was excavated using an on-site backhoe and placed on a concrete pad situated adjacent to the concrete pit. The material was covered with impermeable sheeting and secured to prevent human exposure, infiltration and/or runoff. Photographs of the material are included in **Attachment A**.

The concrete pit was renovated into a 30-mil polyvinyl chloride (PVC)-lined metal turnings pit topped with a 10-inch concrete pad. Photographs of the metal turnings pit are included in **Attachment A** and the metal turnings pit construction plan is included in **Attachment B**.

Four soil samples were obtained from the waste material (one (1) in February of 2010 and three (3) in March of 2010). The soil sample obtained in February was evaluated for Toxic Characteristic Leaching Procedure (TCLP) volatiles, semi-volatiles, metals and total PCBs. The results of this sample did not identify any contaminants of concern above regulatory limits for disposal in a Subtitle D landfill. The soil sample results obtained in March 2010 for total PCB analysis identified a PCB concentration above 50 parts per million (ppm) in one (1) of three (3) random samples obtained from the excavation pile. The total concentration of PCBs in the sample was 57 ppm.



The February 2010 soil sample was submitted under a chain of custody to First Environmental, Inc., a NELAC certified laboratory Accreditation Program (IL ELAP) in Naperville, Illinois. The March 2010 soil grab samples were submitted under a chain of custody to TestAmerica Laboratories, Inc., a NELAC (IL ELAP) certified laboratory, in University Park, Illinois. Copies of the laboratory analytical reports are included in **Attachment C**.

Subsequently, in accordance with discussions between the US EPA (Mr. Ken Zolnierczyk, Environmental Engineer for the Chemical Management Branch, and Dr. Arthur Lubin, Expert Statistician) and Shaw Environmental Inc. (Shaw) (Bernadette Scheller, PG), on May 3, 2010, Shaw and Behr Iron and Metal performed sampling and analysis of the stockpiled material for the purpose of performing statistical analyses. The sampling and analysis was performed in accordance with a work plan recommended by Mr. Zolnierczyk and Dr. Lubin. The following is a summary of the work plan.

The waste pile (approximately 120' x 60' x 5') was divided into four (4) 'quadrants', each with four (4) sections, as illustrated in **Figure 3**. One (1) section within each quadrant was selected as a "pilot" section (total of four (4) pilot sections). Within the pilot section, four (4) soil grab samples were obtained utilizing a backhoe and bucket. Remnant soils from the sampling process were returned to the point of origin utilizing the backhoe bucket.

The soil samples were placed in laboratory provided 4-ounce jars in accordance with EPA publication SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846) and labeled according to their location. For example, the sample obtained from the northwest corner of Section 2 was labeled S-2 NW.

The sample jars were immediately placed in a cooler on ice for the duration of the day. The samples were kept on ice until relinquished to the contract laboratory, First Environmental, Inc. of Naperville, Illinois. The samples were logged on a chain of custody. Laboratory Analytical Reports are included in **Attachment C**. The laboratory analytical results are summarized in **Table 1**.

All sampling equipment was decontaminated and personal protective equipment and decontamination material used in sampling and decontamination were disposed of in accordance with 40 CFR §761.61(a)(5)(v).

### Statistical Analysis of Pilot Data

In accordance with EPA recommendations, the data obtained from the pilot sections were used for statistical analyses to determine the number of samples required to characterize the PCB remediation waste for disposal. **Table 1** includes the analytical data, pilot section mean data and sample variance used for statistical analyses.

The data from the pilot study was used in accordance with the following formula provided by Dr. Arthur Lubin of the US EPA:

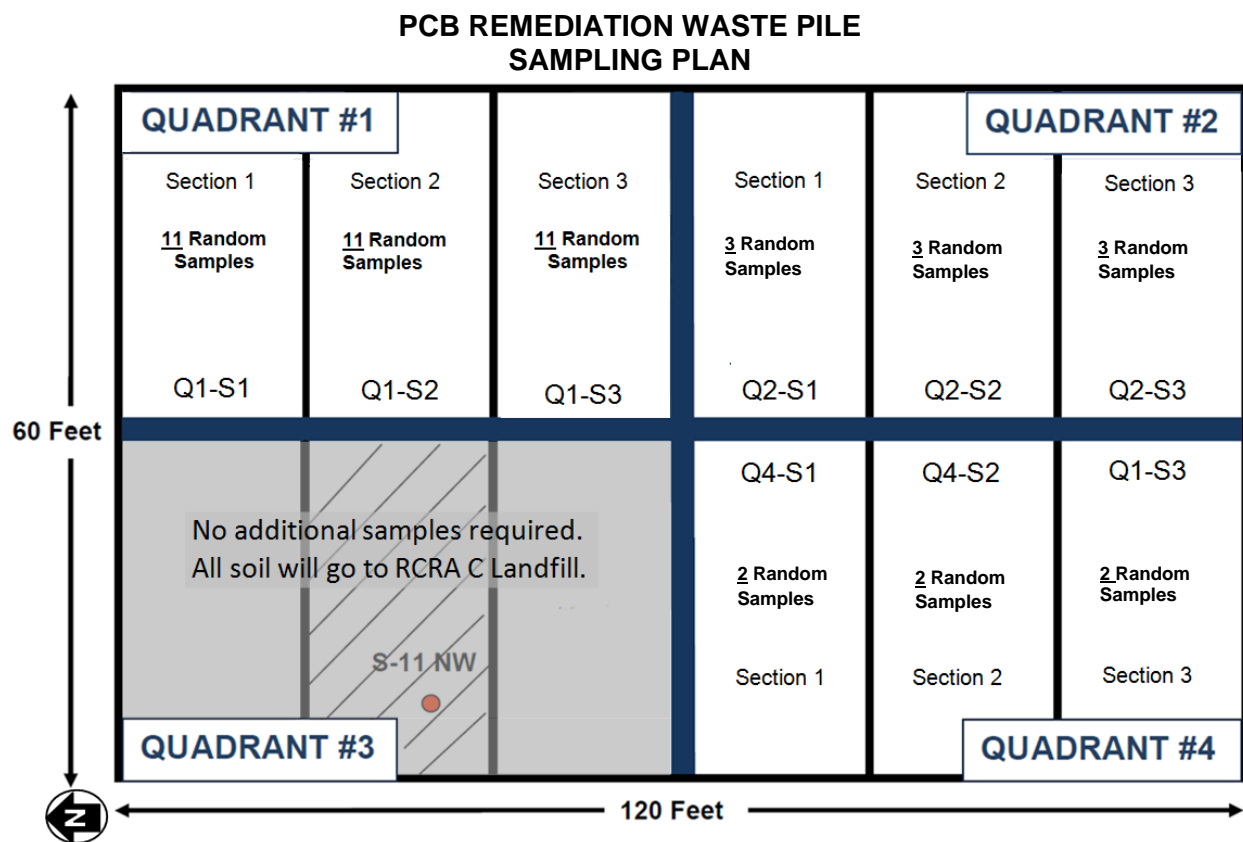
$$n = \frac{(Z_{1-\alpha} + Z_{1-\beta})^2 s^2}{IA^2} + \frac{1}{2} Z_{1-\alpha}^2$$

Where:

- n = Number of Samples
- $Z_{1-\alpha}$  = Probability of False Positive (0.05 = 1.645)
- $Z_{1-\beta}$  = Probability of False Negative (0.10 = 1.282)
- $s^2$  = Sample Variance per quarter of pilot test samples
- IA2 = Inaccuracy Level (10 ppm)

QUADRANT #1	$n = ((1.645 + 1.282)^2 * 107.23) / 10^2 + 0.5(1.645^2) = 10.54$ Samples
QUADRANT #2	$n = ((1.645 + 1.282)^2 * 16.72) / 10^2 + 0.5(1.645^2) = 2.79$ Samples
QUADRANT #3	$n = ((1.645 + 1.282)^2 * 318.23) / 10^2 + 0.5(1.645^2) = 28.62$ Samples
QUADRANT #4	$n = ((1.645 + 1.282)^2 * 6.39) / 10^2 + 0.5(1.645^2) = 1.90$ Samples

The pilot data results indicate that Quadrant #1 will require eleven (11) samples per section (total of 33 samples), Quadrant #2 will require three (3) samples per section (total of 9 samples), and Quadrant #4 will require two (2) samples per section (total of 6 samples). During the pilot study one (1) sample in Quadrant #3 was found to have total concentrations of PCBs of 60.3 ppm. Accordingly, all of Quadrant #3 will be disposed of as hazardous waste in a Resource Conservation and Recovery Act (RCRA) Subtitle C landfill (landfill authorized to accept hazardous waste for disposal) and no further sampling will be performed. A graphic representation of the PCB remediation waste sampling plan is shown below.



# **PCB REMEDIATION WASTE CHARACTERIZATION AND DISPOSAL PLAN**

## **REMEDATION WASTE PILE CHARACTERIZATION**

### **Health and Safety**

Prior to initiating field activities, a Site-specific Health and Safety Plan (HSP) will be prepared in accordance with the Occupational Safety and Health Administration (OSHA) Standard Hazardous Waste Operations and Emergency Response Guidelines, 29 CFR 1910.120. All personnel associated with the project will review, sign, and comply with the HSP at all times while on-site. Exposure to PCBs via dust/soil will be mitigated via implementation of water suppression activities and donning proper personal protective equipment as outlined in the HSP. Water suppression activities will be performed in a manner that does not cause runoff from the waste pile.

### **Sampling Plan Implementation**

An environmental subcontractor will be commissioned to do the work. A Tephra Environmental Compliance LLC (TEC) environmental scientist will be on-site to monitor and document all on-site activities. The excavated material will be spread out approximately five (5) feet thick over an approximate 7,200 square-foot concrete-covered area (approximately sixty (60) feet by one-hundred twenty (120) feet) with the exception of Quadrant #3 which will remain in-place. There will be an approximate two (2) foot separation between quadrants. The material will be wetted as needed to prevent dust exposure. The scope of work includes obtaining forty-eight (48) grab samples from three (3) of the four (4) quadrants (Quadrant #1, Quadrant #2, and Quadrant #4). Two (2) duplicate samples for Quality Assurance/Quality Control (QA/QC) will be additionally collected. (A total of fifty (50) samples will be obtained.)

### **Sampling Procedures**

1. Spread PCB remediation waste on concrete pad to approximate dimensions of sixty (60) feet to one-hundred twenty (120) feet, with the exception of Quadrant #3, which will be left in place.
2. Create grid over pile to define the three (3) quadrants, and the three (3) sections within each quadrant.
3. Systematically obtain samples from each section as outlined in the PCB Remediation Waste Sampling Plan and in accordance with sampling and handling procedures outlined in EPA Publication SW-846.
4. Immediately containerize samples, label, log on chain of custody form and place in cooler on ice.
5. Cover material with visqueen or other impermeable service, and secure to prevent exposure or run-off of material.
6. Perform decontamination of sampling equipment in accordance with 40 CFR Part 761.
7. Submit samples under chain of custody to contract laboratory at the earliest opportunity.

The samples will be obtained using hand samplers (e.g., decontaminated hand trowels). A backhoe bucket will also be used to provide access to deeper samples. Only the bucket of the backhoe, hand samplers and concrete pad will be in direct contact of the material. The samples will be taken directly from the waste pile and from the bucket. The remaining material in the bucket will be placed back into its respective section.

The soil samples will be placed in 4-ounce jars and labeled according to their location. For example the first random sample obtained from Section 1 of Quadrant #1 will be labeled Q1-S1-

1. The second random sample obtained from Section 1 of Quadrant #1 will be labeled Q1-S1-2, and so on.

The following notations will be placed on the jar:

- Date
- Time of Sample
- Scientists Initials
- Client's Name
- Sample ID.

The sample jars will be immediately placed in a cooler on ice for the duration of the day. The samples will be kept on ice until relinquished to the contract laboratory under a chain of custody.

### **Decontamination Procedures**

Prior to use at a Site and between sampling locations, the sampling equipment will be decontaminated. Decontamination of sampling tools will consist of washing the equipment in a solution of potable water and a non-phosphate detergent. Washed equipment will be rinsed with distilled water. The purpose of decontamination is to prevent potential cross-contamination between sampling locations.

After all field sampling is complete the sampling equipment and backhoe bucket will be decontaminated. In accordance with 40 CFR Part 761, decontamination will be performed by swabbing surfaces that have contacted PCBs with a solvent; and double washing/rinsing as defined in Subpart S of Part 761. The double-wash-rinse procedure involves an initial water/detergent or solvent wash to clean the affected surfaces, a potable water rinse to remove residuals left from the initial wash, a solvent wash to decontaminate PCBs, and a final solvent rinse to clean and rinse the surface. Solvents such as kerosene, diesel, or terpene hydrocarbons that meet the performance-based organic decontamination fluid requirement of the regulations are acceptable. All cleanup rags, gloves, or other such items used for decontamination will be containerized and disposed of in a permitted, licensed landfill. All decontamination fluids, will be recovered, containerized and disposed of in accordance with local, state and federal regulations.

### **Data Evaluation**

Upon the receipt and review of the laboratory analytical data, it will be determined which of the quadrants can be disposed of in a Subtitle D landfill (e.g., if all of the soil samples from the quadrant have concentrations of total PCBs < 50 ppm the quadrant may be disposed of in a Subtitle D landfill). If any of the samples within a quadrant exhibit concentrations of PCBs ≥50ppm, all the material in the quadrant will be handled as PCB remediation waste as outlined 40 CFR Part 761.61 *PCB Remediation Waste, (a) Self-Implementing on-site cleanup and disposal of PCB remediation waste* and will be disposed of at Heritage Environmental Services, LLC, landfill located at 4370 West County Rout 1275 North, Roachdale, Indiana in accordance with the following disposal work plan.

## **PCB REMEDIATION WASTE DISPOSAL**

### **Landfill Waste Stream Characterization Samples**

Prior to waste disposal activities, three (3) waste stream characterization samples will be obtained from the waste pile. The samples will be collected, containerized, and submitted to the contract laboratory in accordance with EPA Publication SW-846 and evaluated for pH, Reactivity (cyanide/sulfide), Flash point, Toxic Characteristic Leaching Procedure (TCLP) metals, TCLP volatiles, TCLP semi-volatiles, Total or TCLP herbicides and TCLP pesticides (RCRA D001-D043 waste characteristics). Four (4) total sample results will be provided to the contract landfill(s) (the three (3) samples obtained in 2014 and the one (1) sample obtained in 2010.)

### **Health and Safety**

Prior to initiating field activities, a Site-specific Health and Safety Plan (HSP) will be prepared in accordance with the Occupational Safety and Health Administration (OSHA) Standard Hazardous Waste Operations and Emergency Response Guidelines, 29 CFR 1910.120. All onsite personnel associated with the project will review, sign, and comply with the HSP at all times while on-site. Exposure to PCBs via dust/soil will be mitigated via implementation of water suppression activities and donning proper personal protective equipment as outlined in the HSP. Water suppression activities will be performed in a manner that does not cause runoff from the waste pile.

### **Site Control**

Prior to commencing excavation and disposal activities at the Site, the environmental subcontractor will implement Site Control Measures. Site Control will include establishing work zones (an Exclusion Zone, Contamination Reduction Zone, and Support Zone), enforcing of safe work practices (in accordance with the Site HSP), and securing the Site when operations have ceased for the day.

Site Control will include lining the Contamination Reduction Zone with visqueen or other impermeable surface for loading of the trucks. Any material that may be spilled during loading will be returned to a quadrant that will be disposed of at the RCRA C landfill. The disposal trucks will be inspected prior to leaving the area to assure contamination remains on-site. Decontamination procedures in accordance with 40 CFR Part 761 will be used if warranted upon the results of the truck inspections.

### **Disposal**

#### Pile Materials with < 50 ppm total PCBs

Waste pile materials that have been found to have < 50 ppm concentrations of total PCBs will be excavated and disposed of first. If all of the samples from a quadrant have concentrations of total PCBs < 50 ppm, the material from this quadrant will be excavated with a backhoe and placed in trucks, and transported to a Subtitle D landfill under manifest.

#### Pile Materials with ≥ 50 ppm total PCBs

Waste pile materials that have been found to have concentrations ≥ 50 ppm total PCBs will be excavated and loaded into trucks and transported to Heritage Environmental Services, LLC, landfill (HES) located at 4370 West County Route 1275 North, Roachdale, Indiana, a RCRA Subtitle C landfill.

Excavation and disposal of the material is expected to take several days. Each day, prior to exiting the Site, the environmental subcontractor will cover the waste pile with visqueen or another impermeable surface, and secure it to prevent infiltration or runoff of materials from the Exclusion Zone.

## **Decontamination**

Upon complete excavation of the waste pile the backhoe bucket will be decontaminated in accordance with 40 CFR Part 761, by swabbing surfaces that have contacted PCBs with a solvent and double washing/rinsing as defined in Subpart S of Part 761. The double-wash-rinse procedure involves an initial water/detergent or solvent wash to clean the affected surfaces, a potable water rinse to remove residuals left from the initial wash, a solvent wash to decontaminate PCBs, and a final solvent rinse to clean and rinse the surface. Solvents such as kerosene, diesel, or terpene hydrocarbons that meet the performance-based organic decontamination fluid requirement of the regulations are acceptable. All cleanup rags, gloves, or other such items used for decontamination will be containerized and disposed of in a permitted, licensed landfill. All decontamination fluids, will be recovered, containerized and disposed of in accordance with local, state and federal regulations.

Remaining fines left on the concrete pad will be collected (swept or vacuumed) and placed in the final truck bound for HES Landfill. After the concrete pad is cleaned of fines it will be pressure-washed. An impermeable barrier will be installed (e.g. polyethylene sheeting over berms) on the pad to prevent wash water from leaving the remediation zone. The wash water will be collected via a drum vacuum unit and deposited into 55-gallon drums. A sample of the decontamination water will be analyzed for PCBs, and disposed of in accordance with the analytical results.

All materials used in cleaning the concrete pad will be decontaminated and/or disposed of as indicated in 761.61.

## **Confirmatory Concrete Pad Sampling**

Following Subpart O – *Sampling to Verify Completion of Self-Implementing Cleanup and On-Site Disposal of Bulk PCB Remediation Waste and Porous Surfaces in Accordance with 761.61(a)(6)*, three (3) concrete samples will be obtained from below where the waste pile is located. The samples will be obtained from the 0 to 0.5" interval (below top of pad) at random locations on the concrete pad or where visual evidence of PCB impact is present. The samples will be taken with decontaminated equipment (e.g., concrete chisel) and placed in 4-ounce jars and labeled (e.g. CP-1, CP-2, and CP-3).

The following notations will be placed on the jar:

- Date
- Time of Sample
- Scientists Initials
- Client's Name
- Sample ID.

The sample jars will be immediately placed in a cooler on ice for the duration of the day. The samples will be kept on ice until relinquished to the contract laboratory. The samples will be logged on a chain of custody and their locations will be documented.

## **Reporting**

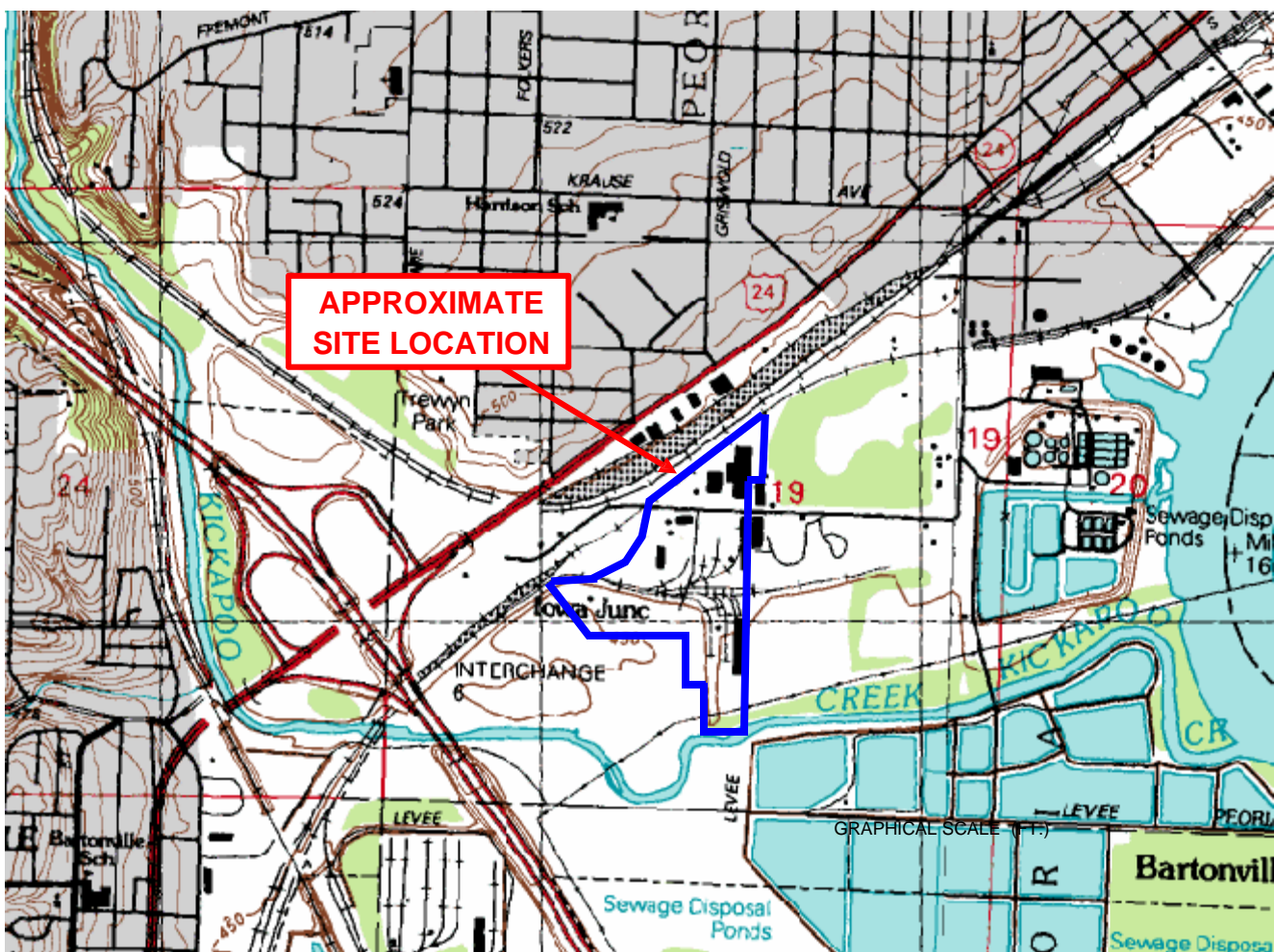
Upon receipt of the final confirmatory concrete pad analytical results, a summary report will be prepared documenting all remedial activities included in the PCB Remediation Characterization and Disposal Work Plan.

# FIGURES





## PROJECT LOCATION



Note: Figure Adapted from USGS Topographic Map

0 1,125 2,250



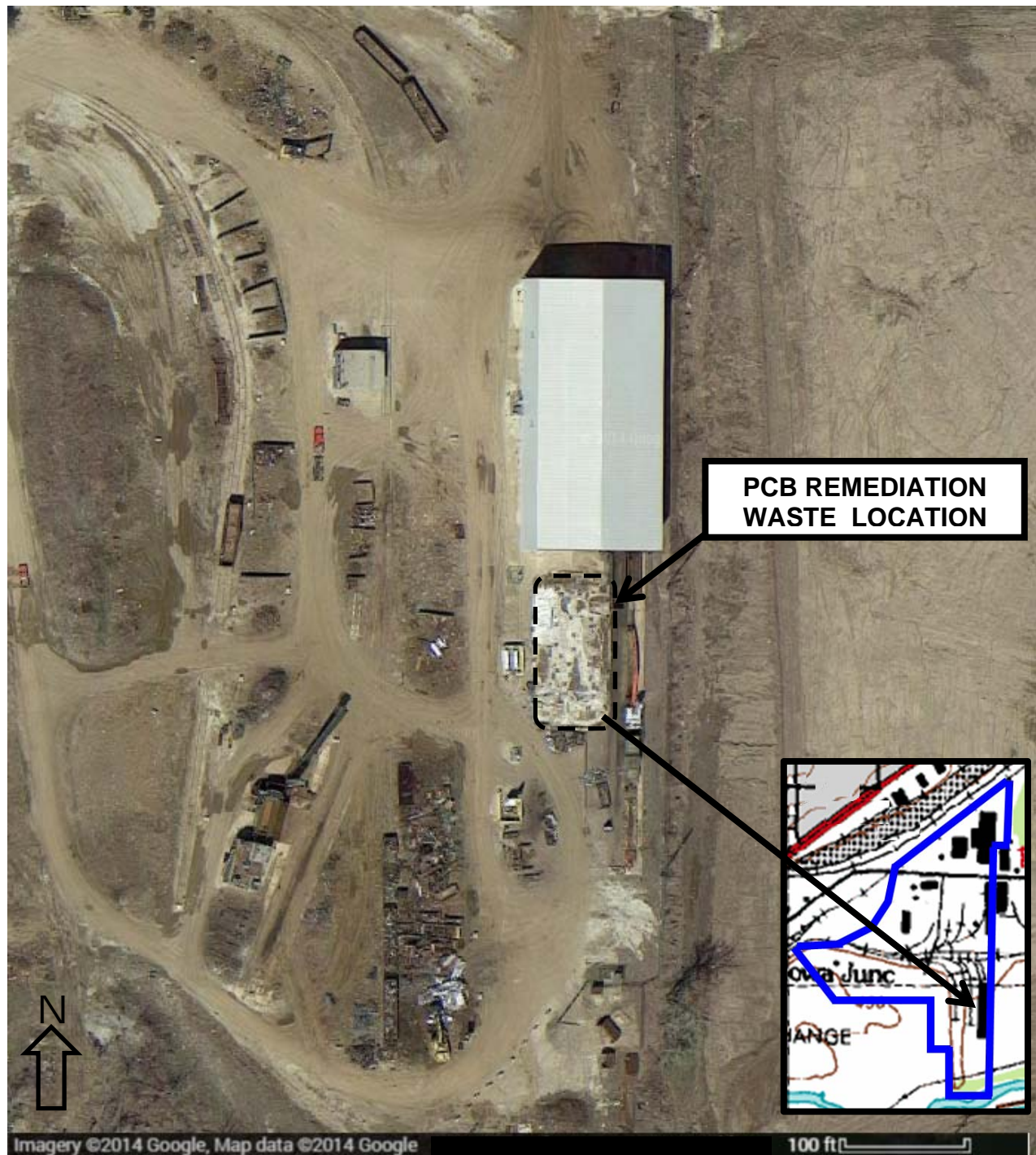
**FIGURE 1**  
**BEHR PEORIA, INC.**  
**2424 WEST CLARK STREET**  
**PEORIA, ILLINOIS**

TEPHRA ENVIRONMENTAL COMPLIANCE LLC



TEC Project # 14005 Date: November 2014

**FIGURE 2**  
**PCB REMEDIATION WASTE LOCATION**



Note: Figure Adapted from 2014 Google Earth Aerial Photograph

**BEHR PEORIA, INC.**  
**2424 WEST CLARK STREET**  
**PEORIA, ILLINOIS**

**TEPHRA ENVIRONMENTAL COMPLIANCE LLC**



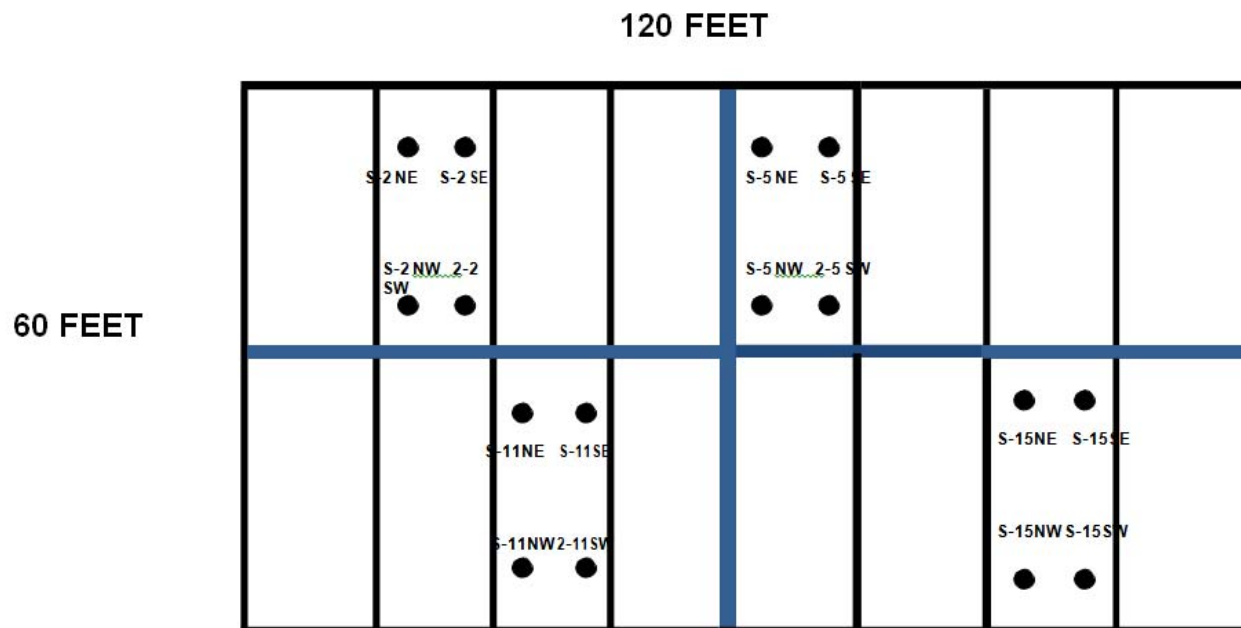
TEC Project#

14005

DATE:

November 2014

**FIGURE 3**  
**SOIL SAMPLING PLAN FOR STATISTICAL ANALYSIS**



**BEHR PEORIA, INC.**  
**2424 WEST CLARK STREET**  
**PEORIA, ILLINOIS**

**TEPHRA ENVIRONMENTAL COMPLIANCE LLC**



TEC Project#

14005

DATE:

November 2014

**DATA TABLE**

**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**PCBS**  
**BEHR PEORIA, INC.**  
**2424 West Clark Street**  
**Peoria, Illinois**

Behr Peoria			S-2 NE	S-2 NW	S-2 SE	S-2 SW	S-5 NE	S-5 NW	S-5 SE	S-5 SW	S-11 NE	S-11 NW	S-11 SE	S-11 SW	S-15 NE	S-15 NW	S-15 SE	S-15 SW	
Date of Sample Collection:			5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010	5/3/2010
Time of Sample Collection:			1:19 PM	1:32 PM	1:23 PM	1:28 PM	1:36 PM	1:44 PM	1:39 PM	1:41 PM	1:48 PM	1:56 PM	1:51 PM	1:54 PM	1:58 PM	2:06 PM	2:01 PM	2:04 PM	
First Environmental Lab. Numbers:			10-1698-001	10-1698-002	10-1698-003	10-1698-004	10-1698-005	10-1698-006	10-1698-007	10-1698-008	10-1698-009	10-1698-010	10-1698-011	10-1698-012	10-1698-013	10-1698-014	10-1698-015	10-1698-016	
Contaminants of Concern:																			
Polychlorinated biphenyls (PCBs) (8082)																			
Date Analyzed:	Units	Rep. Limit	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	5/5/2010	
Aroclor 1016	mg/kg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Aroclor 1221	mg/kg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Aroclor 1232	mg/kg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Aroclor 1242	mg/kg	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Aroclor 1248	mg/kg	0.4	10.2	10.9	21.9	6.87	8.24	13.2	10.8	14.3	9.14	22.1	12.3	11.9	11.1	11.4	11.3	9.42	
Aroclor 1254	mg/kg	0.8	15.9	29.3	11.7	9.22	10.5	14	11.5	12.1	14.3	35.8	12.7	0.8	15.6	16.3	15.6	12.7	
Aroclor 1260	mg/kg	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	7.33	0.8	0.8	0.8	0.8	
TOTAL PCBS			28.5	42.6	36	18.49	20.74	29.6	24.7	28.8	25.84	60.3	27.4	21.63	29.1	30.1	29.3	24.52	
MEAN OF EACH SECTION			31.40				25.96				33.79				28.26				
SQUARED DIFFERENCE	(Xi - M)^2		8.40	125.50	21.18	166.60	27.25	13.25	1.59	8.07	63.24	702.65	40.86	147.93	0.71	3.40	1.09	13.95	
	Sum (Xi-M)^2		321.68				50.15				954.68				19.16				
SAMPLE VARIANCE	sum (Xi-M)^2/N-1		107.23				16.72				318.23				6.39				
POPULATION VARIANCE	sum (Xi-M)^2/N		80.42				12.54				238.67				4.79				

Data collected by Shaw Environmental, Inc.

## **ATTACHMENTS**

**ATTACHMENT A**  
**SITE PHOTOGRAPHS**



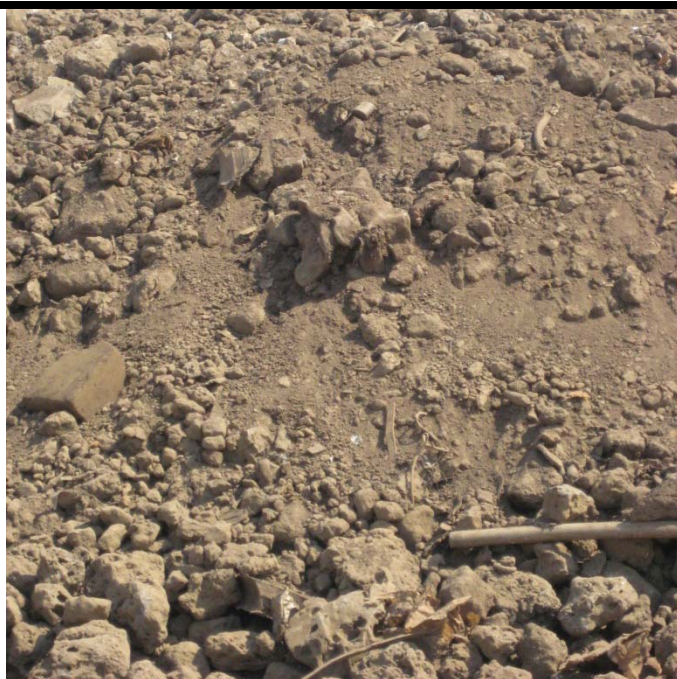
## SITE PHOTOGRAPHS

1.



Comments: View looking north of waste pile and turnings pit location.

2.



Comments: View of waste pile.

**BEHR PEORIA, INC.**  
**2424 WEST CLARK STREET**  
**PEORIA, ILLINOIS**

**TEPHRA ENVIRONMENTAL COMPLIANCE LLC**



**TEC PROJECT#**

**14005**

**DATE PHOTOGRAPHS TAKEN:**

**APRIL 2010**



## SITE PHOTOGRAPHS

3.



Comments: View looking toward northeast of 30-mil PVC liner installed during pit construction.

4.



Comments: View looking toward southwest of completed turnings pit. Base is 10 inches of concrete overlying the PVC liner and sand.

**BEHR PEORIA, INC.**  
**2424 WEST CLARK STREET**  
**PEORIA, ILLINOIS**

**TEPHRA ENVIRONMENTAL COMPLIANCE LLC**



TEC PROJECT#

14005

DATE PHOTOGRAPHS TAKEN:

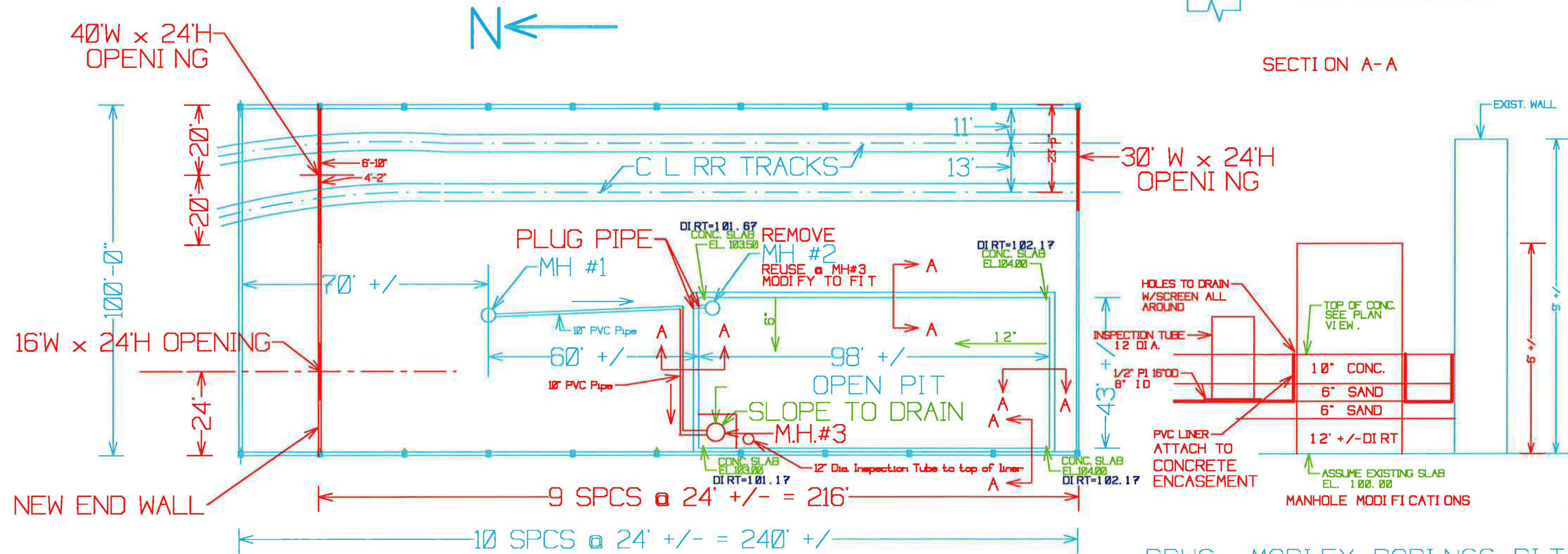
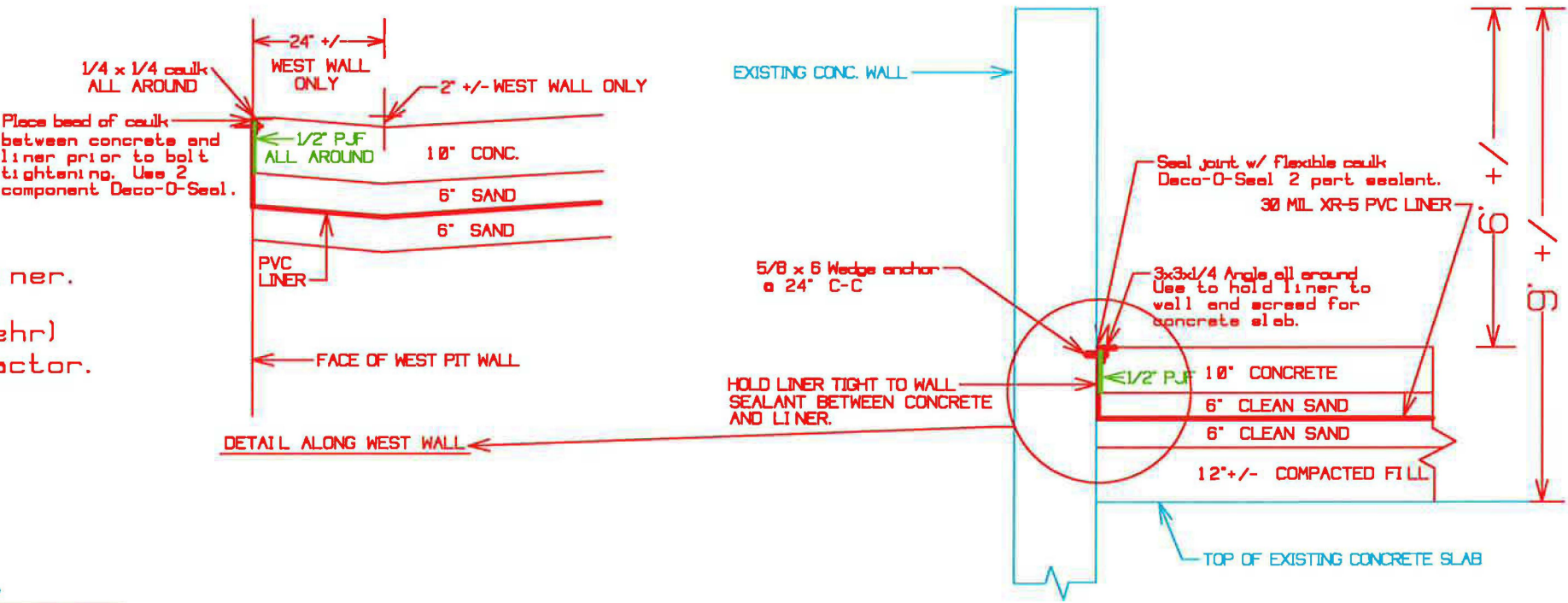
MAY 2010

**ATTACHMENT B**  
**METAL TURNINGS PIT**  
**CONSTRUCTION PLAN**



NOTES FOR PIT SLAB CONSTRUCTION:

1. Concrete to be 3500 psi with pvc fibers.
2. Drain slab to M.H. in NW corner of pit.
3. Attach liner to existing wall to assure seal between existing wall and liner.
4. Behr will redo sewer pipe and M.H.
5. Behr will place and compact 12" fill atop existing slab.
6. Sand fill above and below liner to be free of large rocks which could tear the liner.
6. Reinforce concrete slab with 2 layers of 4 x 4 4-4 welded wire mesh (furnished by Behr)
7. Liner furnished by Behr, installed by contractor.
8. Place 6" pvc waterstop at all slab joints.



DRWG: MODIFY BORINGS PIT  
SCALE: 1" = 30'

**ATTACHMENT C**  
**ANALYTICAL REPORTS**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

March 08, 2010

Mr. Ron Coupar  
**BEHR PEORIA INC**  
2424 West Clark Street  
Peoria, IL 61080

Project ID: Open - Soil  
First Environmental File ID: 10-0705  
Date Received: March 01, 2010

Dear Mr. Ron Coupar:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002205: effective 02/06/09 through 02/28/10.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200 or [stan@firstenv.com](mailto:stan@firstenv.com).

Sincerely,

Stan Zaworski  
Project Manager



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** BEHR PEORIA INC

**Project ID:** Open - Soil

**Sample ID:** Soil & Small Stones

**Sample No:** 10-0705-001

**Date Collected:** 02/26/10

**Time Collected:** 9:00

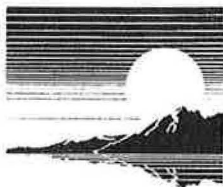
**Date Received:** 03/01/10

**Date Reported:** 03/08/10

Results are reported on an "as received" basis.

<b>Analyte</b>	<b>Result</b>	<b>R.L.</b>	<b>Units</b>	<b>Flags</b>
<b>Percent Total Solids Method: 2540B</b>				
Analysis Date: 03/04/10				
Total Solids	93.18		%	
<b>TCLP Volatiles Method 1311 Method: 5030B/8260B</b>				
Analysis Date: 03/04/10				
Benzene	< 0.050	0.050	mg/L	
2-Butanone (MEK)	< 0.100	0.100	mg/L	
Carbon tetrachloride	< 0.050	0.050	mg/L	
Chlorobenzene	< 0.050	0.050	mg/L	
Chloroform	< 0.050	0.050	mg/L	
1,2-Dichloroethane	< 0.050	0.050	mg/L	
1,1-Dichloroethene	< 0.050	0.050	mg/L	
Tetrachloroethene	< 0.050	0.050	mg/L	
Trichloroethene	< 0.050	0.050	mg/L	
Vinyl chloride	< 0.100	0.100	mg/L	
<b>TCLP Semi-Volatiles Method 1311 Method: 8270C Preparation Method 3510C</b>				
Analysis Date: 03/04/10				Preparation Date: 03/04/10
1,4-Dichlorobenzene	< 0.10	0.10	mg/L	
2,4-Dinitrotoluene	< 0.10	0.10	mg/L	
Hexachlorobenzene	< 0.10	0.10	mg/L	
Hexachlorobutadiene	< 0.10	0.10	mg/L	
Hexachloroethane	< 0.10	0.10	mg/L	
2-Methylphenol	< 0.10	0.10	mg/L	
3 & 4-Methylphenol	< 0.10	0.10	mg/L	
Nitrobenzene	< 0.10	0.10	mg/L	
Pentachlorophenol	< 0.50	0.50	mg/L	
Pyridine	< 0.50	0.50	mg/L	
2,4,5-Trichlorophenol	< 0.10	0.10	mg/L	
2,4,6-Trichlorophenol	< 0.10	0.10	mg/L	
<b>TCLP Metals Method 1311 Method: 6010B Preparation Method 3010A</b>				
Analysis Date: 03/04/10				Preparation Date: 03/02/10
Arsenic	< 0.002	0.002	mg/L	
Barium	1.7	1.0	mg/L	
Cadmium	0.140	0.001	mg/L	
Chromium	< 0.001	0.001	mg/L	
Lead	0.189	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	





**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** BEHR PEORIA INC

**Project ID:** Open - Soil

**Sample ID:** Soil & Small Stones

**Sample No:** 10-0705-001

**Date Collected:** 02/26/10

**Time Collected:** 9:00

**Date Received:** 03/01/10

**Date Reported:** 03/08/10

Results are reported on an "as received" basis.

<b>Analyte</b>	<b>Result</b>	<b>R.L.</b>	<b>Units</b>	<b>Flags</b>
<b>TCLP Metals Method 1311</b>				
<b>Method: 6010B</b>		<b>Preparation Method 3010A</b>		
Analysis Date: 03/04/10		Preparation Date: 03/02/10		
Silver	< 0.001	0.001	mg/L	
<b>TCLP Metals Method 1311</b>				
<b>Method: 7470A</b>				
Analysis Date: 03/03/10				
Mercury	< 0.0005	0.0005	mg/L	
<b>Polychlorinated biphenyls (PCBs)</b>				
<b>Method: 8082</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 03/04/10		Preparation Date: 03/02/10		
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	11,600	80.0	ug/kg	
Aroclor 1248	< 80.0	80.0	ug/kg	
Aroclor 1254	27,700	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	

Page 1 of 1 pgs

**IEPA Certification# 100292**

Company Name: Behr Peoria, Inc

Street Address: 2424 W. Clark St.

City: Peoria

State: IL Zip: 61607

Phone: 815 987-2770 Fax: \_\_\_\_\_

(2606) e-mail: [rcoupar@jbehr.com](mailto:rcoupar@jbehr.com)

Send Report To:

Via: Fax ☐

e-mail 

Sampled By: Ron Coupar

## Analyses

Project I.D.: OPEN - Soil  
P.O. #: OPEN

**Matrix Codes:** S = Soil    W = Water    O = Other

Date/Time Taken

### Sample Description

### Description

### Matrix

TCLP Metals,  
TCLP Organics,  
PCBs

## Comments

**Lab I.D.**

2-26-10 9am

Soil &amp; Small Stones

See Quote - Email

10-0705-00

**FOR LAB USE ONLY:**

Cooler Temperature: 0.1-6°C Yes ☒ No. ☐ °C

Sample Refrigerated: Yes No

Containers Received Preserved: ☒ Yes ☐ No

Received within 6 hrs. of collection: \_\_\_\_\_

Refrigerator Temperature: \_\_\_\_\_ °C

Ice Present: Yes ☒ No ☐

5035 Vials Frozen: Yes No

Freezer Temperature: \_\_\_\_\_ °C

**Notes and Special Instructions:**

Relinquished By: Ron Capon Date/Time 2-26-60 11:20

Received By: Page Date/Time 3/1/10 1300

Relinquished By: \_\_\_\_\_ Date/Time \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time \_\_\_\_\_



## ANALYTICAL REPORT

Job Number: 500-24736-1

Job Description: Waste Characterization

For:

Waste Management

3550 Washington

East Peoria, IL 61611

Attention: Steve Matheny



Approved for release.  
Donna L. Ingersoll  
Project Manager II  
4/7/2010 3:54 PM

---

Donna L Ingersoll  
Project Manager II  
donna.ingersoll@testamericainc.com  
04/07/2010

cc: Mr. Terry Dixon

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

**TestAmerica Laboratories, Inc.**

TestAmerica Chicago 2417 Bond Street, University Park, IL 60484

Tel (708) 534-5200 Fax (708) 534-5211 [www.testamericainc.com](http://www.testamericainc.com)



**Job Narrative**  
**500-24736-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC Semi VOA**

Method(s) 8082A: The following samples were diluted due to the abundance of target analytes: STOCKPILE #1-SOIL (500-24736-1), STOCKPILE #2-SOIL (500-24736-3), WALL-SOIL (500-24736-2). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Due to the level of dilution required for the following samples, surrogate recoveries are not reported: STOCKPILE #1-SOIL (500-24736-1), STOCKPILE #2-SOIL (500-24736-3), WALL-SOIL (500-24736-2).

Method(s) 8082: The grand mean exception, as outlined in EPA Method 8000B, was applied to continuing calibration verification (CCV) standards. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the data may be reported if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15%D. The surrogate recoveries for several CCV's associated with the samples were outside control limits. STOCKPILE #1-SOIL (500-24736-1), STOCKPILE #2-SOIL (500-24736-3), WALL-SOIL (500-24736-2)

No other analytical or quality issues were noted.

**Metals**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 500-24736-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>500-24736-1</b>	<b>STOCKPILE #1-SOIL</b>				
PCB-1248		21000	3600	ug/Kg	8082
PCB-1254		17000	3600	ug/Kg	8082
Percent Moisture		8.1	0.10	%	Moisture
Percent Solids		92	0.10	%	Moisture
<b>500-24736-2</b>	<b>WALL-SOIL</b>				
PCB-1248		16000	890	ug/Kg	8082
PCB-1254		18000	890	ug/Kg	8082
Percent Moisture		9.8	0.10	%	Moisture
Percent Solids		90	0.10	%	Moisture
<b>500-24736-3</b>	<b>STOCKPILE #2-SOIL</b>				
PCB-1248		37000	3800	ug/Kg	8082
PCB-1254		20000	3800	ug/Kg	8082
Percent Moisture		12	0.10	%	Moisture
Percent Solids		88	0.10	%	Moisture

## METHOD SUMMARY

Client: Waste Management

Job Number: 500-24736-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL CHI	SW846 8082	
Automated Soxhlet Extraction	TAL CHI		SW846 3541
Percent Moisture	TAL CHI	EPA Moisture	

### Lab References:

TAL CHI = TestAmerica Chicago

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 500-24736-1

Method	Analyst	Analyst ID
SW846 8082	Standish, Lyndsey M	LMS
EPA Moisture	Kolarczyk, Paul F	PFK

## SAMPLE SUMMARY

Client: Waste Management

Job Number: 500-24736-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
500-24736-1	STOCKPILE #1-SOIL	Solid	03/30/2010 1045	03/31/2010 1000
500-24736-2	WALL-SOIL	Solid	03/30/2010 1050	03/31/2010 1000
500-24736-3	STOCKPILE #2-SOIL	Solid	03/30/2010 1055	03/31/2010 1000

# **SAMPLE RESULTS**



## Analytical Data

Client: Waste Management

Job Number: 500-24736-1

Client Sample ID: STOCKPILE #1-SOIL

Lab Sample ID: 500-24736-1

Date Sampled: 03/30/2010 1045

Client Matrix: Solid

% Moisture: 8.1

Date Received: 03/31/2010 1000

### 8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 500-83387	Instrument ID:	INST31-32
Preparation:	3541	Prep Batch: 500-83118	Initial Weight/Volume:	15.1337 g
Dilution:	100		Final Weight/Volume:	10.0 mL
Date Analyzed:	04/06/2010 1233		Injection Volume:	1 uL
Date Prepared:	03/31/2010 2215		Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
PCB-1016		<3600		3600
PCB-1221		<3600		3600
PCB-1232		<3600		3600
PCB-1242		<3600		3600
PCB-1248		21000		3600
PCB-1254		17000		3600
PCB-1260		<3600		3600

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	0	D	32 - 110
DCB Decachlorobiphenyl	0	D	38 - 140

## Analytical Data

Client: Waste Management

Job Number: 500-24736-1

Client Sample ID: WALL-SOIL

Lab Sample ID: 500-24736-2

Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 03/30/2010 1050

Date Received: 03/31/2010 1000

### 8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 500-83387	Instrument ID:	INST31-32
Preparation:	3541	Prep Batch: 500-83118	Initial Weight/Volume:	15.6874 g
Dilution:	50		Final Weight/Volume:	5.0 mL
Date Analyzed:	04/06/2010 0908		Injection Volume:	1 uL
Date Prepared:	03/31/2010 2215		Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
PCB-1016		<890		890
PCB-1221		<890		890
PCB-1232		<890		890
PCB-1242		<890		890
PCB-1248		16000		890
PCB-1254		18000		890
PCB-1260		<890		890

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	0	D	32 - 110
DCB Decachlorobiphenyl	0	D	38 - 140

## Analytical Data

Client: Waste Management

Job Number: 500-24736-1

**Client Sample ID: STOCKPILE #2-SOIL**

Lab Sample ID: 500-24736-3

Date Sampled: 03/30/2010 1055

Client Matrix: Solid

% Moisture: 12.3

Date Received: 03/31/2010 1000

### 8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 500-83387	Instrument ID:	INST31-32
Preparation:	3541	Prep Batch: 500-83118	Initial Weight/Volume:	15.1473 g
Dilution:	200		Final Weight/Volume:	5.0 mL
Date Analyzed:	04/06/2010 1247		Injection Volume:	1 uL
Date Prepared:	03/31/2010 2215		Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
PCB-1016		<3800		3800
PCB-1221		<3800		3800
PCB-1232		<3800		3800
PCB-1242		<3800		3800
PCB-1248		37000		3800
PCB-1254		20000		3800
PCB-1260		<3800		3800

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	0	D	32 - 110
DCB Decachlorobiphenyl	0	D	38 - 140

## Analytical Data

Client: Waste Management

Job Number: 500-24736-1

---

### General Chemistry

**Client Sample ID: STOCKPILE #1-SOIL**

Lab Sample ID: 500-24736-1

Date Sampled: 03/30/2010 1045

Client Matrix: Solid

Date Received: 03/31/2010 1000

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	8.1		%	0.10	1.0	Moisture
	Analysis Batch: 500-83070	Date Analyzed: 03/31/2010 1155				DryWt Corrected: N
Percent Solids	92		%	0.10	1.0	Moisture
	Analysis Batch: 500-83070	Date Analyzed: 03/31/2010 1155				DryWt Corrected: N

## Analytical Data

Client: Waste Management

Job Number: 500-24736-1

---

### General Chemistry

**Client Sample ID:** WALL-SOIL

Lab Sample ID: 500-24736-2

Client Matrix: Solid

Date Sampled: 03/30/2010 1050

Date Received: 03/31/2010 1000

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	9.8		%	0.10	1.0	Moisture
	Analysis Batch: 500-83070	Date Analyzed: 03/31/2010 1155				DryWt Corrected: N
Percent Solids	90		%	0.10	1.0	Moisture
	Analysis Batch: 500-83070	Date Analyzed: 03/31/2010 1155				DryWt Corrected: N

## Analytical Data

Client: Waste Management

Job Number: 500-24736-1

---

### General Chemistry

**Client Sample ID:** STOCKPILE #2-SOIL

Lab Sample ID: 500-24736-3

Date Sampled: 03/30/2010 1055

Client Matrix: Solid

Date Received: 03/31/2010 1000

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	12		%	0.10	1.0	Moisture
	Analysis Batch: 500-83070	Date Analyzed: 03/31/2010 1155				DryWt Corrected: N
Percent Solids	88		%	0.10	1.0	Moisture
	Analysis Batch: 500-83070	Date Analyzed: 03/31/2010 1155				DryWt Corrected: N

## DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 500-24736-1

Lab Section	Qualifier	Description
GC Semi VOA	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.



# **QUALITY CONTROL RESULTS**

## Quality Control Results

Client: Waste Management

Job Number: 500-24736-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 500-83118</b>					
LCS 500-83118/3-A	Lab Control Sample	T	Solid	3541	
MB 500-83118/1-A	Method Blank	T	Solid	3541	
500-24736-1	STOCKPILE #1-SOIL	T	Solid	3541	
500-24736-2	WALL-SOIL	T	Solid	3541	
500-24736-3	STOCKPILE #2-SOIL	T	Solid	3541	
<b>Analysis Batch:500-83387</b>					
LCS 500-83118/3-A	Lab Control Sample	T	Solid	8082	500-83118
MB 500-83118/1-A	Method Blank	T	Solid	8082	500-83118
500-24736-1	STOCKPILE #1-SOIL	T	Solid	8082	500-83118
500-24736-2	WALL-SOIL	T	Solid	8082	500-83118
500-24736-3	STOCKPILE #2-SOIL	T	Solid	8082	500-83118

#### Report Basis

T = Total

### General Chemistry

<b>Analysis Batch:500-83070</b>					
500-24736-1	STOCKPILE #1-SOIL	T	Solid	Moisture	
500-24736-2	WALL-SOIL	T	Solid	Moisture	
500-24736-3	STOCKPILE #2-SOIL	T	Solid	Moisture	

#### Report Basis

T = Total

## Quality Control Results

Client: Waste Management

Job Number: 500-24736-1

### Surrogate Recovery Report

#### 8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX2 %Rec	DCB2 %Rec
500-24736-1	STOCKPILE #1-SOIL	0D	0D
500-24736-2	WALL-SOIL	0D	0D
500-24736-3	STOCKPILE #2-SOIL	0D	0D
MB 500-83118/1-A		75	98
LCS 500-83118/3-A		70	102

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	32-110
DCB = DCB Decachlorobiphenyl	38-140

## Quality Control Results

Client: Waste Management

Job Number: 500-24736-1

### Method Blank - Batch: 500-83118

Lab Sample ID: MB 500-83118/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/01/2010 1722  
Date Prepared: 03/31/2010 2215

Analysis Batch: 500-83387  
Prep Batch: 500-83118  
Units: ug/Kg

### Method: 8082 Preparation: 3541

Instrument ID: INST31-32  
Lab File ID: 03301032\_117.d  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 5.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	<17		17
PCB-1221	<17		17
PCB-1232	<17		17
PCB-1242	<17		17
PCB-1248	<17		17
PCB-1254	<17		17
PCB-1260	<17		17

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	75	32 - 110
DCB Decachlorobiphenyl	98	38 - 140

### Lab Control Sample - Batch: 500-83118

Lab Sample ID: LCS 500-83118/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 04/01/2010 1736  
Date Prepared: 03/31/2010 2215

Analysis Batch: 500-83387  
Prep Batch: 500-83118  
Units: ug/Kg

### Method: 8082 Preparation: 3541

Instrument ID: INST31-32  
Lab File ID: 03301032\_118.d  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 5.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	167	137	82	47 - 115	
PCB-1260	167	161	97	63 - 114	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	70	32 - 110
DCB Decachlorobiphenyl	102	38 - 140

TestAmerica  
2417 Bond Street  
University Park, IL 60466  
708.534.5200

Sampler ID \_\_\_\_\_

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes ☐ No ☒

### **Chain of Custody Record**

500-24736

TAL-4124-500 (1107)

Client

# Waste Management

Address 3550 E. Washington Street

City East Peoria State IL Zip Code 61611

*Project Name and Location (State)*

Bebr Sp.

Contract/Purchase Order/Quote No.

Steve Matheny - WM

Sample I.D. No. and Description

(Containers for each sample may be combined on one line)

Data

Time

**Matrix**

### Containers & Preservatives

Analysis (Attach list if more space is needed)

Special Instructions/  
Conditions of Receipt

### Possible Hazard Identification

☒ Non-Hazard    ☐ Flammable    ☐ Skin Irritant    ☐ Poison B    ☐ Unknown

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

1. Relinquished BV

## 2. Relinquished By

### 3. Relinquished By

---

Comments

Sample Disposal

☐ *Return To Client*

20-10	Time
	10:52

Time	12:40
------	-------

Time

☒ Disposal By Lab

QC Requirements (Specify)

1 Received By

2. Received By \_\_\_\_\_

3 Received By

(A fee may be assessed if samples are retained longer than 1 month)

Date	Time
3/31/10	10:20

Date	Time
------	------

Date \_\_\_\_\_ Time \_\_\_\_\_

## Login Sample Receipt Check List

Client: Waste Management

Job Number: 500-24736-1

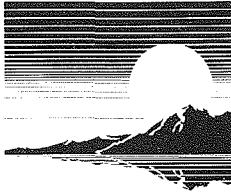
Login Number: 24736

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

May 06, 2010

Ms. Bernadette Scheller  
**SHAW ENVIRONMENTAL, INC.**  
1607 E. Main Street  
Suite C  
St. Charles, IL 60174

Project ID: 134172 - Behr Peoria  
First Environmental File ID: 10-1698  
Date Received: May 04, 2010

Dear Ms. Bernadette Scheller:

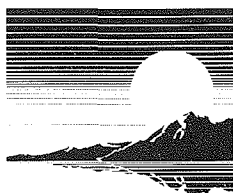
The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 002468: effective 02/23/10 through 02/28/11.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

William Mottashed  
Project Manager



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## Case Narrative

### SHAW ENVIRONMENTAL, INC.

Project ID: 134172 - Behr Peoria

First Environmental File ID: 10-1698

Date Received: May 04, 2010

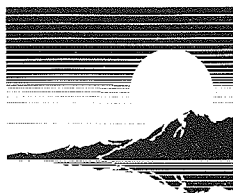
Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
B	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

### Method Comments

Lab Number	Sample ID	Comments:
10-1698-001	S-2 NE	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-002	S-2 NW	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-003	S-2 SE	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-004	S-2 SW	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-005	S-5 NE	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-006	S-5 NW	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.





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## Case Narrative

### SHAW ENVIRONMENTAL, INC.

Project ID: 134172 - Behr Peoria

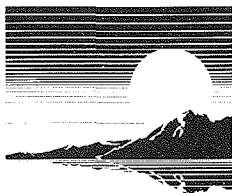
First Environmental File ID: 10-1698

Date Received: May 04, 2010

Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
B	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

10-1698-007	S-5 SE	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-008	S-5 SW	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-009	S-11 NE	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-010	S-11 NW	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-011	S-11 SE	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-012	S-11 SW	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-013	S-15 NE	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-014	S-15 NW	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-015	S-15 SE	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.
10-1698-016	S-15 SW	<i>Polychlorinated biphenyls (PCBs)</i> The reporting limits are elevated due to matrix interference.



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:19

**Sample ID:** S-2 NE

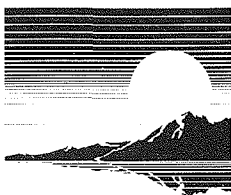
**Date Received:** 05/04/10

**Sample No:** 10-1698-001

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
<b>Method: 2540B</b>				
Analysis Date: 05/04/10				
Total Solids	87.85		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
<b>Method: 8082</b>				
<b>Preparation Method 3540C</b>				
Analysis Date: 05/05/10				
Preparation Date: 05/05/10				
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	10,200	80.0	ug/kg	
Aroclor 1254	15,900	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:32

**Sample ID:** S-2 NW

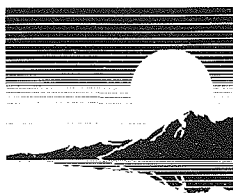
**Date Received:** 05/04/10

**Sample No:** 10-1698-002

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
<b>Method: 2540B</b>				
Analysis Date: 05/04/10				
Total Solids	84.15		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
<b>Method: 8082</b>				
<b>Preparation Method 3540C</b>				
Analysis Date: 05/05/10				
Preparation Date: 05/05/10				
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	10,900	80.0	ug/kg	
Aroclor 1254	29,300	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Project ID:** 134172 - Behr Peoria

**Sample ID:** S-2 SE

**Sample No:** 10-1698-003

**Date Collected:** 05/03/10

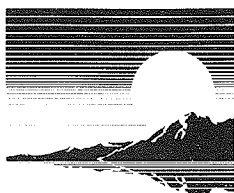
**Time Collected:** 13:23

**Date Received:** 05/04/10

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>	<b>Method: 2540B</b>			
Analysis Date: 05/04/10				
Total Solids	84.59		%	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 05/05/10		Preparation Date: 05/05/10		
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	21,900	80.0	ug/kg	
Aroclor 1254	11,700	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:28

**Sample ID:** S-2 SW

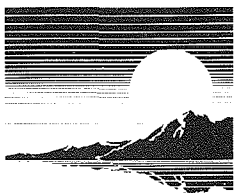
**Date Received:** 05/04/10

**Sample No:** 10-1698-004

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
<b>Method: 2540B</b>				
Analysis Date: 05/04/10				
Total Solids	84.04		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
<b>Method: 8082</b>				
<b>Preparation Method 3540C</b>				
Analysis Date: 05/05/10				
Preparation Date: 05/05/10				
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	6,870	80.0	ug/kg	
Aroclor 1254	9,220	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Project ID:** 134172 - Behr Peoria

**Sample ID:** S-5 NE

**Sample No:** 10-1698-005

**Date Collected:** 05/03/10

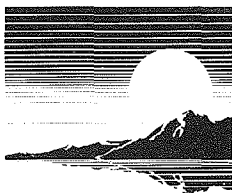
**Time Collected:** 13:36

**Date Received:** 05/04/10

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>	<b>Method: 2540B</b>			
Analysis Date: 05/04/10				
Total Solids	88.64		%	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 05/05/10			Preparation Date: 05/05/10	
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	8,240	80.0	ug/kg	
Aroclor 1254	10,500	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:44

**Sample ID:** S-5 NW

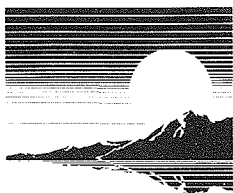
**Date Received:** 05/04/10

**Sample No:** 10-1698-006

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>	<b>Method: 2540B</b>			
Analysis Date: 05/04/10				
Total Solids	87.42		%	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 05/05/10			Preparation Date: 05/05/10	
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	13,200	80.0	ug/kg	
Aroclor 1254	14,000	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:39

**Sample ID:** S-5 SE

**Date Received:** 05/04/10

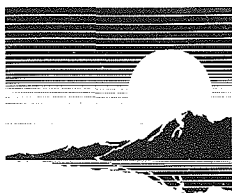
**Sample No:** 10-1698-007

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>	<b>Method: 2540B</b>			
Analysis Date: 05/04/10				
Total Solids	87.27		%	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 05/05/10			Preparation Date: 05/05/10	
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	10,800	80.0	ug/kg	
Aroclor 1254	11,500	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	





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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:41

**Sample ID:** S-5 SW

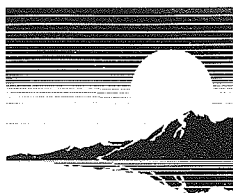
**Date Received:** 05/04/10

**Sample No:** 10-1698-008

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
Method: 2540B				
Analysis Date: 05/04/10				
Total Solids	84.75		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
Method: 8082		Preparation Method 3540C		
Analysis Date: 05/05/10				
Preparation Date: 05/05/10				
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	14,300	80.0	ug/kg	
Aroclor 1254	12,100	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:48

**Sample ID:** S-11 NE

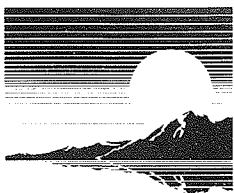
**Date Received:** 05/04/10

**Sample No:** 10-1698-009

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>	<b>Method: 2540B</b>			
Analysis Date: 05/04/10				
Total Solids	89.13		%	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 05/05/10			Preparation Date: 05/05/10	
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	9,140	80.0	ug/kg	
Aroclor 1254	14,300	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:56

**Sample ID:** S-11 NW

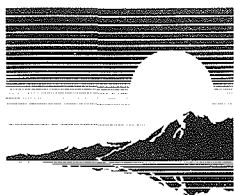
**Date Received:** 05/04/10

**Sample No:** 10-1698-010

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
<b>Method: 2540B</b>				
Analysis Date: 05/04/10				
Total Solids	85.30		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
<b>Method: 8082</b>				
<b>Preparation Method 3540C</b>				
Analysis Date: 05/05/10				
Preparation Date: 05/05/10				
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	22,100	80.0	ug/kg	
Aroclor 1254	35,800	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:51

**Sample ID:** S-11 SE

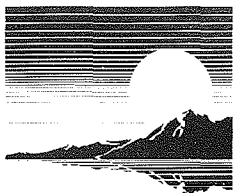
**Date Received:** 05/04/10

**Sample No:** 10-1698-011

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>	<b>Method: 2540B</b>			
Analysis Date: 05/04/10				
Total Solids	88.05		%	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>		<b>Preparation Method 3540C</b>	
Analysis Date: 05/05/10			Preparation Date: 05/05/10	
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	12,300	80.0	ug/kg	
Aroclor 1254	12,700	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Project ID:** 134172 - Behr Peoria

**Sample ID:** S-11 SW

**Sample No:** 10-1698-012

**Date Collected:** 05/03/10

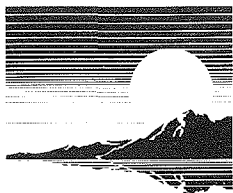
**Time Collected:** 13:54

**Date Received:** 05/04/10

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
<b>Method: 2540B</b>				
Analysis Date: 05/04/10				
Total Solids	87.72		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
<b>Method: 8082</b>				
<b>Preparation Method 3540C</b>				
Analysis Date: 05/05/10				
Preparation Date: 05/05/10				
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	11,900	80.0	ug/kg	
Aroclor 1254	< 800	160	ug/kg	
Aroclor 1260	7,330	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 13:58

**Sample ID:** S-15 NE

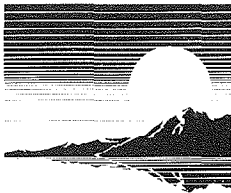
**Date Received:** 05/04/10

**Sample No:** 10-1698-013

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
Method: 2540B				
Analysis Date: 05/04/10				
Total Solids	92.27		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
Method: 8082		Preparation Method 3540C		
Analysis Date: 05/05/10		Preparation Date: 05/05/10		
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	11,100	80.0	ug/kg	
Aroclor 1254	15,600	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 14:06

**Sample ID:** S-15 NW

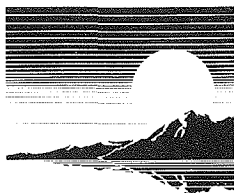
**Date Received:** 05/04/10

**Sample No:** 10-1698-014

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
<b>Method: 2540B</b>				
Analysis Date: 05/04/10				
Total Solids	85.02		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
<b>Method: 8082</b>				
<b>Preparation Method 3540C</b>				
Analysis Date: 05/05/10				
Preparation Date: 05/05/10				
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	11,400	80.0	ug/kg	
Aroclor 1254	16,300	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	



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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 14:01

**Sample ID:** S-15 SE

**Date Received:** 05/04/10

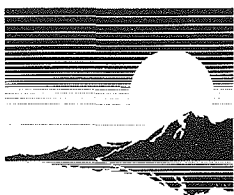
**Sample No:** 10-1698-015

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>	<b>Method: 2540B</b>			
Analysis Date: 05/04/10				
Total Solids	92.70		%	
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method: 8082</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 05/05/10		Preparation Date: 05/05/10		
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	11,300	80.0	ug/kg	
Aroclor 1254	15,600	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	





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**Analytical Report**

**Client:** SHAW ENVIRONMENTAL, INC.

**Date Collected:** 05/03/10

**Project ID:** 134172 - Behr Peoria

**Time Collected:** 14:04

**Sample ID:** S-15 SW

**Date Received:** 05/04/10

**Sample No:** 10-1698-016

**Date Reported:** 05/06/10

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b>				
Method: 2540B				
Analysis Date: 05/04/10				
Total Solids	93.47		%	
<b>Polychlorinated biphenyls (PCBs)</b>				
Method: 8082		Preparation Method 3540C		
Analysis Date: 05/05/10		Preparation Date: 05/05/10		
Aroclor 1016	< 400	80.0	ug/kg	
Aroclor 1221	< 400	80.0	ug/kg	
Aroclor 1232	< 400	80.0	ug/kg	
Aroclor 1242	< 400	80.0	ug/kg	
Aroclor 1248	9,420	80.0	ug/kg	
Aroclor 1254	12,700	160	ug/kg	
Aroclor 1260	< 800	160	ug/kg	

Page 1 of 2 pgs

Rev. 4/06



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**First Environmental Laboratories**

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Phone: (630) 778-1200 • Fax: (630) 778-1233  
E-mail: firstinfo@firstenv.com  
IEPA Certification #100292

**CHAIN OF CUSTODY RECORD**

Page 2 of 2 pgs

Company Name: SHAW ENVIRONMENTAL, INC.  
Street Address: 1607 EAST MAIN STREET  
City: ST CHARLES State: IL Zip: 60178  
Phone: 630-762-1400 Fax: 630-762-1402 e-mail: bernadette.scheller@shawcorp.com  
Send Report To: BERNADETTE SCHELLER Via: Fax ☐ e-mail ☒  
Sampled By: ZPC

**Analyses**

Date/Time Taken		Sample Description	Matrix	PCBS								Comments	Lab I.D.
5/3/10 1358		S-15 NE	S	X									10-1698-013
5/3/10 1406		S-15 NW											014
5/3/10 1401		S-15 SE											015
5/3/10 1404		S-15 SW	X	X									016

**FOR LAB USE ONLY:**

Cooler Temperature: 0.1-6°C Yes ☐ No ☐ °C Sample Refrigerated: Yes ☒ No ☐  
Received within 6 hrs. of collection: \_\_\_\_\_ Refrigerator Temperature: 24 °C Containers Received Preserved: ☐ Yes ☐ No  
Ice Present: Yes ☐ No ☐ 5035 Vials Frozen: Yes ☐ No ☐  
Freezer Temperature: \_\_\_\_\_ °C

Notes and Special Instructions: \_\_\_\_\_

**\* RUSH TAT**

**MUST MEET MINIMUM TACO REQUIREMENTS**

Relinquished By: [Signature] Date/Time 5/4/10 1:25pm Received By: [Signature] Date/Time 5/4/10 1:21pm  
Relinquished By: \_\_\_\_\_ Date/Time \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time \_\_\_\_\_  
Rev. 4/06

## Appendix B

# Email from Mirtha Capiro Recommending That Behr Implement the PCB Waste Characterization as Proposed



Bernadette Scheller <bernadette.scheller@gmail.com>

---

## U.S. EPA recommendation on PCB waste characterization - RE: Behr Peoria Work Plan Resubmission

1 message

---

**Capiro, Mirtha** <capiro.mirtha@epa.gov>

Wed, Dec 17, 2014 at 8:11 PM

To: Bernadette Scheller **Not Responsive**

Bernadette,

Thank you for providing the above resubmission for Behr Peoria, Inc. (Behr).

U.S. EPA has no further comments on the PCB waste characterization aspect of your resubmission. Therefore, U.S. EPA recommends that Behr implement the PCB waste characterization as proposed. As you have indicated, Behr would like to conduct self-implementing on-site cleanup and disposal of PCB remediation waste following completion of PCB waste characterization.

As agreed per our discussions, once the PCB waste characterization has been completed, Behr will prepare and submit a self-implementing PCB Cleanup Workplan based on the PCB waste characterization results. The self-implementing PCB Cleanup Workplan should be consistent with the requirements under 40 CFR 761.61(a).

Please let me know if you have any questions. Please note that I will be out of the office starting tomorrow and returning 1/5/15. Please leave me a voice mail if you would like to reach me sooner than that and I will try to get back to you.

Thanks for your cooperation.

Mirtha Cápiro

Environmental Scientist

Corrective Action Section 2

Remediation and Reuse Branch

Land and Chemicals Division

United States Environmental Protection Agency

Region 5

77 W Jackson Boulevard, LU-9J

Chicago, Illinois 60604

USA

Telephone: [312-886-7567](tel:312-886-7567)

Fax: [312-697-2509](tel:312-697-2509)

email: [capiro.mirtha@epa.gov](mailto:capiro.mirtha@epa.gov)

**From:** Bernadette Scheller [mailto:Not Responsive]

**Sent:** Wednesday, December 17, 2014 10:52 AM

**To:** Capiro, Mirtha

**Subject:** Behr Peoria Work Plan Resubmission

Mirtha,

As per your request, I am resubmitting the PCB Remediation Waste Characterization and Disposal Plan for Behr Peoria, Inc., 2424 Clark Street, Peoria, Illinois with the corrected formula: Probability of False Positive (0.05 - 1.645).

Please feel free to contact me with any questions or concerns.

Thank you,

Bernadette Scheller P.G.



Tephra Environmental Compliance LLC

869 Iroquois Circle

Baraboo, WI 53913

**Not Responsive** (cell)

**608-448-2024** (work)

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**PCB Remediation Waste Characterization and Disposal Plan .pdf**  
3022K





# Appendix C

## 2015 Laboratory Reports



Reissue #1  
10/01/15

## Technical Report for

**GHD Services Inc.**

**Behr, Peoria, IL**

**11103179**

**Accutest Job Number: MC41122**

**Sampling Dates: 08/26/15 - 08/27/15**

### Report to:

**GHD Services Inc.**

**kathleen.shaw@ghd.com**

**ATTN: Kathy Shaw**

**Total number of pages in report: 171**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

*Reza Fand*  
**Reza Fand**  
**Lab Director**

**Client Service contact: Jeremy Vienneau 508-481-6200**

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.



GHD  
45 Farmington Valley Drive  
Plainville, CT 06062

October 1, 2015

Accutest Job MC41122 (revision 1)

Ms. Shaw,

The report of Accutest job number MC41122 has been revised to remove the footnote "Sample re-extracted beyond recommended holding time." as per your email request on September 28, 2015.

Sincerely,

Jeremy Vienneau  
Accutest Laboratories of New England, Inc.

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## Sample Summary

GHD Services Inc.

Job No: MC41122

Behr, Peoria, IL

Project No: 11103179

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC41122-1	08/26/15	08:49 JHCW	08/29/15	SO	Soil	S-082615-GW-01
MC41122-2	08/26/15	09:04 JHCW	08/29/15	SO	Soil	S-082615-GW-02
MC41122-3	08/26/15	09:11 JHCW	08/29/15	SO	Soil	S-082615-GW-03
MC41122-4	08/26/15	09:22 JHCW	08/29/15	SO	Soil	S-082615-GW-04
MC41122-5	08/26/15	09:26 JHCW	08/29/15	SO	Soil	S-082615-GW-05
MC41122-6	08/26/15	09:40 JHCW	08/29/15	SO	Soil	S-082615-GW-06
MC41122-7	08/26/15	09:58 JHCW	08/29/15	SO	Soil	S-082615-GW-07
MC41122-8	08/26/15	10:02 JHCW	08/29/15	SO	Soil	S-082615-GW-08
MC41122-9	08/26/15	10:08 JHCW	08/29/15	SO	Soil	S-082615-GW-09
MC41122-10	08/26/15	10:15 JHCW	08/29/15	SO	Soil	S-082615-GW-10
MC41122-11	08/26/15	10:20 JHCW	08/29/15	SO	Soil	S-082615-GW-11
MC41122-12	08/26/15	10:23 JHCW	08/29/15	SO	Soil	S-082615-GW-12
MC41122-13	08/26/15	10:27 JHCW	08/29/15	SO	Soil	S-082615-GW-13

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.





## Sample Summary

(continued)

GHD Services Inc.

Job No: MC41122

Behr, Peoria, IL

Project No: 11103179

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC41122-14	08/26/15	10:32	JHCW	08/29/15	SO	Soil	S-082615-GW-14
MC41122-15	08/26/15	10:39	JHCW	08/29/15	SO	Soil	S-082615-GW-15
MC41122-16	08/26/15	10:43	JHCW	08/29/15	SO	Soil	S-082615-GW-16
MC41122-17	08/26/15	10:59	JHCW	08/29/15	SO	Soil	S-082615-GW-17
MC41122-18	08/26/15	11:07	JHCW	08/29/15	SO	Soil	S-082615-GW-18
MC41122-19	08/26/15	11:10	JHCW	08/29/15	SO	Soil	S-082615-GW-19
MC41122-20	08/26/15	11:13	JHCW	08/29/15	SO	Soil	S-082615-GW-20
MC41122-21	08/26/15	11:17	JHCW	08/29/15	SO	Soil	S-082615-GW-21
MC41122-22	08/26/15	11:35	JHCW	08/29/15	SO	Soil	S-082615-GW-22
MC41122-23	08/26/15	11:45	JHCW	08/29/15	SO	Soil	S-082615-GW-23
MC41122-24	08/26/15	12:59	JHCW	08/29/15	SO	Soil	S-082615-GW-24
MC41122-25	08/26/15	13:04	JHCW	08/29/15	SO	Soil	S-082615-GW-25
MC41122-26	08/26/15	13:12	JHCW	08/29/15	SO	Soil	S-082615-GW-26

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

**Sample Summary**

(continued)

GHD Services Inc.

Job No: MC41122

Behr, Peoria, IL

Project No: 11103179

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC41122-27	08/26/15	13:15 JHCW	08/29/15	SO	Soil	S-082615-GW-27
MC41122-28	08/26/15	13:19 JHCW	08/29/15	SO	Soil	S-082615-GW-28
MC41122-29	08/26/15	13:24 JHCW	08/29/15	SO	Soil	S-082615-GW-29
MC41122-30	08/26/15	13:43 JHCW	08/29/15	SO	Soil	S-082615-GW-30
MC41122-31	08/26/15	13:49 JHCW	08/29/15	SO	Soil	S-082615-GW-31
MC41122-32	08/26/15	13:52 JHCW	08/29/15	SO	Soil	S-082615-GW-32
MC41122-33	08/26/15	14:08 JHCW	08/29/15	SO	Soil	S-082615-GW-33
MC41122-34	08/26/15	14:14 JHCW	08/29/15	SO	Soil	S-082615-GW-34
MC41122-35	08/26/15	14:21 JHCW	08/29/15	SO	Soil	S-082615-GW-35
MC41122-36	08/26/15	14:25 JHCW	08/29/15	SO	Soil	S-082615-GW-36
MC41122-37	08/26/15	14:32 JHCW	08/29/15	SO	Soil	S-082615-GW-37
MC41122-38	08/26/15	14:35 JHCW	08/29/15	SO	Soil	S-082615-GW-38
MC41122-39	08/26/15	14:41 JHCW	08/29/15	SO	Soil	S-082615-GW-39

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

GHD Services Inc.

Job No: MC41122

Behr, Peoria, IL

Project No: 11103179

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC41122-40	08/26/15	14:48 JHCW	08/29/15	SO	Soil	S-082615-GW-40
MC41122-41	08/26/15	15:08 JHCW	08/29/15	SO	Soil	S-082615-GW-41
MC41122-42	08/26/15	15:11 JHCW	08/29/15	SO	Soil	S-082615-GW-42
MC41122-43	08/27/15	07:36 JHCW	08/29/15	SO	Soil	S-082715-GW-43
MC41122-44	08/27/15	07:44 JHCW	08/29/15	SO	Soil	S-082715-GW-44
MC41122-45	08/27/15	07:48 JHCW	08/29/15	SO	Soil	S-082715-GW-45
MC41122-46	08/27/15	09:14 JHCW	08/29/15	SO	Soil	S-082715-GW-51
MC41122-47	08/27/15	09:23 JHCW	08/29/15	SO	Soil	S-082715-GW-52
MC41122-48	08/27/15	09:32 JHCW	08/29/15	SO	Soil	S-082715-GW-53
MC41122-49	08/27/15	09:44 JHCW	08/29/15	SO	Soil	S-082715-GW-54
MC41122-50	08/27/15	07:52 JHCW	08/29/15	SO	Soil	S-082715-GW-46
MC41122-51	08/27/15	07:56 JHCW	08/29/15	SO	Soil	S-082715-GW-47
MC41122-52	08/27/15	07:59 JHCW	08/29/15	SO	Soil	S-082715-GW-48

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.



**Sample Summary**  
(continued)

GHD Services Inc.

**Job No:** MC41122

Behr, Peoria, IL  
Project No: 11103179

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC41122-53	08/27/15	08:04 JHCW	08/29/15	SO	Soil	S-082715-GW-49
MC41122-54	08/27/15	08:08 JHCW	08/29/15	SO	Soil	S-082715-GW-50

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** MC41122  
**Account:** GHD Services Inc.  
**Project:** Behr, Peoria, IL  
**Collected:** 08/26/15 thru 08/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>MC41122-1 S-082615-GW-01</b>						
Aroclor 1248 <sup>a</sup>		6770	1800	640	ug/kg	SW846 8082A
Aroclor 1254		10100	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2340	1800	270	ug/kg	SW846 8082A
<b>MC41122-2 S-082615-GW-02</b>						
Aroclor 1248		42900	4000	1400	ug/kg	SW846 8082A
Aroclor 1254 <sup>a</sup>		38900	4000	1000	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3970 J	4000	580	ug/kg	SW846 8082A
<b>MC41122-3 S-082615-GW-03</b>						
Aroclor 1248		15200	3600	1300	ug/kg	SW846 8082A
Aroclor 1254 <sup>a</sup>		13000	3600	950	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2620 J	3600	530	ug/kg	SW846 8082A
<b>MC41122-4 S-082615-GW-04</b>						
Aroclor 1248 <sup>a</sup>		12500	3600	1300	ug/kg	SW846 8082A
Aroclor 1254		14800	3600	930	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3100 J	3600	520	ug/kg	SW846 8082A
<b>MC41122-5 S-082615-GW-05</b>						
Aroclor 1248 <sup>a</sup>		11000	3700	1300	ug/kg	SW846 8082A
Aroclor 1254		15900	3700	960	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3140 J	3700	540	ug/kg	SW846 8082A
<b>MC41122-6 S-082615-GW-06</b>						
Aroclor 1248 <sup>a</sup>		5130	740	260	ug/kg	SW846 8082A
Aroclor 1254		5740	740	190	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1300	740	110	ug/kg	SW846 8082A
<b>MC41122-7 S-082615-GW-07</b>						
Aroclor 1248 <sup>a</sup>		4070	710	250	ug/kg	SW846 8082A
Aroclor 1254		7380	710	180	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1640	710	100	ug/kg	SW846 8082A
<b>MC41122-8 S-082615-GW-08</b>						
Aroclor 1248 <sup>a</sup>		5300	1800	630	ug/kg	SW846 8082A

## Summary of Hits

**Job Number:** MC41122  
**Account:** GHD Services Inc.  
**Project:** Behr, Peoria, IL  
**Collected:** 08/26/15 thru 08/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Aroclor 1254	MC41122-9 S-082615-GW-09	7900	1800	470	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2030	1800	260	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-9 S-082615-GW-09	8980	1800	640	ug/kg	SW846 8082A
Aroclor 1254		11700	1800	470	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2330	1800	270	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-10 S-082615-GW-10	8040	1800	640	ug/kg	SW846 8082A
Aroclor 1254		12200	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3000	1800	270	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-11 S-082615-GW-11	3450	740	260	ug/kg	SW846 8082A
Aroclor 1254		4200	740	190	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1560	740	110	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-12 S-082615-GW-12	2800	360	130	ug/kg	SW846 8082A
Aroclor 1254		3480	360	94	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1120	360	53	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-13 S-082615-GW-13	7450	1700	610	ug/kg	SW846 8082A
Aroclor 1254		12500	1700	450	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3120	1700	260	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-14 S-082615-GW-14	16500	3700	1300	ug/kg	SW846 8082A
Aroclor 1254		19800	3700	980	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3130 J	3700	550	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-15 S-082615-GW-15	8020	1800	630	ug/kg	SW846 8082A
Aroclor 1254		11000	1800	470	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2650	1800	260	ug/kg	SW846 8082A

## Summary of Hits

**Job Number:** MC41122  
**Account:** GHD Services Inc.  
**Project:** Behr, Peoria, IL  
**Collected:** 08/26/15 thru 08/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>MC41122-16 S-082615-GW-16</b>						
Aroclor 1248 <sup>a</sup>		7110	1800	650	ug/kg	SW846 8082A
Aroclor 1254		13600	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		4170	1800	270	ug/kg	SW846 8082A
<b>MC41122-17 S-082615-GW-17</b>						
Aroclor 1248 <sup>a</sup>		2000	710	250	ug/kg	SW846 8082A
Aroclor 1254		4150	710	190	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1040	710	100	ug/kg	SW846 8082A
<b>MC41122-18 S-082615-GW-18</b>						
Aroclor 1248 <sup>a</sup>		2720	1900	650	ug/kg	SW846 8082A
Aroclor 1254		4710	1900	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1260 J	1900	270	ug/kg	SW846 8082A
<b>MC41122-19 S-082615-GW-19</b>						
Aroclor 1248 <sup>a</sup>		9480	1800	640	ug/kg	SW846 8082A
Aroclor 1254		13500	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3140	1800	270	ug/kg	SW846 8082A
<b>MC41122-20 S-082615-GW-20</b>						
Aroclor 1248 <sup>b</sup>		15700	1800	650	ug/kg	SW846 8082A
Aroclor 1254		17300	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2250	1800	270	ug/kg	SW846 8082A
<b>MC41122-21 S-082615-GW-21</b>						
Aroclor 1248 <sup>a</sup>		13400	1700	610	ug/kg	SW846 8082A
Aroclor 1254		18700	1700	450	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		4140	1700	250	ug/kg	SW846 8082A
<b>MC41122-22 S-082615-GW-22</b>						
Aroclor 1248 <sup>a</sup>		6320	1800	650	ug/kg	SW846 8082A
Aroclor 1254		13000	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3110	1800	270	ug/kg	SW846 8082A
<b>MC41122-23 S-082615-GW-23</b>						
Aroclor 1248 <sup>a</sup>		6100	770	270	ug/kg	SW846 8082A

## Summary of Hits

**Job Number:** MC41122  
**Account:** GHD Services Inc.  
**Project:** Behr, Peoria, IL  
**Collected:** 08/26/15 thru 08/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Aroclor 1254	MC41122-24 S-082615-GW-24	9210	770	200	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1830	770	110	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-24 S-082615-GW-24	7770	780	270	ug/kg	SW846 8082A
Aroclor 1254		9800	780	200	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2180	780	110	ug/kg	SW846 8082A
Aroclor 1248	MC41122-25 S-082615-GW-25	10900	1800	630	ug/kg	SW846 8082A
Aroclor 1254 <sup>a</sup>		9790	1800	470	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2360	1800	260	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-26 S-082615-GW-26	10700	1800	640	ug/kg	SW846 8082A
Aroclor 1254		14100	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3350	1800	270	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-27 S-082615-GW-27	11500	1900	660	ug/kg	SW846 8082A
Aroclor 1254		13800	1900	490	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2930	1900	280	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-28 S-082615-GW-28	7850	1800	630	ug/kg	SW846 8082A
Aroclor 1254		12400	1800	470	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2820	1800	260	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-29 S-082615-GW-29	13200	1800	630	ug/kg	SW846 8082A
Aroclor 1254		17500	1800	470	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		4460	1800	260	ug/kg	SW846 8082A
Aroclor 1248 <sup>a</sup>	MC41122-30 S-082615-GW-30	11300	1800	650	ug/kg	SW846 8082A
Aroclor 1254		15000	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2690	1800	270	ug/kg	SW846 8082A



## Summary of Hits

**Job Number:** MC41122  
**Account:** GHD Services Inc.  
**Project:** Behr, Peoria, IL  
**Collected:** 08/26/15 thru 08/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>MC41122-31 S-082615-GW-31</b>						
Aroclor 1248 <sup>a</sup>		8260	1800	620	ug/kg	SW846 8082A
Aroclor 1254		12200	1800	460	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2860	1800	260	ug/kg	SW846 8082A
<b>MC41122-32 S-082615-GW-32</b>						
Aroclor 1248 <sup>a</sup>		21300	1900	680	ug/kg	SW846 8082A
Aroclor 1254		22100	1900	500	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3410	1900	280	ug/kg	SW846 8082A
<b>MC41122-33 S-082615-GW-33</b>						
Aroclor 1248 <sup>a</sup>		22700	3800	1400	ug/kg	SW846 8082A
Aroclor 1254		39800	3800	1000	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		5930	3800	560	ug/kg	SW846 8082A
<b>MC41122-34 S-082615-GW-34</b>						
Aroclor 1248 <sup>a</sup>		20600	7700	2700	ug/kg	SW846 8082A
Aroclor 1254		69100	7700	2000	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		8790	7700	1100	ug/kg	SW846 8082A
<b>MC41122-35 S-082615-GW-35</b>						
Aroclor 1248 <sup>a</sup>		6120	1800	630	ug/kg	SW846 8082A
Aroclor 1254		10800	1800	470	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		4310	1800	260	ug/kg	SW846 8082A
<b>MC41122-36 S-082615-GW-36</b>						
Aroclor 1248 <sup>a</sup>		8540	1800	640	ug/kg	SW846 8082A
Aroclor 1254		14100	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3010	1800	270	ug/kg	SW846 8082A
<b>MC41122-37 S-082615-GW-37</b>						
Aroclor 1248 <sup>a</sup>		9560	1800	630	ug/kg	SW846 8082A
Aroclor 1254		15400	1800	460	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		3590	1800	260	ug/kg	SW846 8082A
<b>MC41122-38 S-082615-GW-38</b>						
Aroclor 1248 <sup>a</sup>		3560	730	260	ug/kg	SW846 8082A

## Summary of Hits

**Job Number:** MC41122  
**Account:** GHD Services Inc.  
**Project:** Behr, Peoria, IL  
**Collected:** 08/26/15 thru 08/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Aroclor 1254		6230	730	190	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1640	730	110	ug/kg	SW846 8082A
<b>MC41122-39</b>	<b>S-082615-GW-39</b>					
Aroclor 1248 <sup>a</sup>		4100	400	140	ug/kg	SW846 8082A
Aroclor 1254		4200	400	110	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		762	40	5.9	ug/kg	SW846 8082A
<b>MC41122-40</b>	<b>S-082615-GW-40</b>					
Aroclor 1248 <sup>a</sup>		2100	400	140	ug/kg	SW846 8082A
Aroclor 1254		3470	400	100	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		863	400	58	ug/kg	SW846 8082A
<b>MC41122-41</b>	<b>S-082615-GW-41</b>					
Aroclor 1248 <sup>a</sup>		5070	720	250	ug/kg	SW846 8082A
Aroclor 1254		8570	720	190	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2670	720	110	ug/kg	SW846 8082A
<b>MC41122-42</b>	<b>S-082615-GW-42</b>					
Aroclor 1248 <sup>a</sup>		4620	730	260	ug/kg	SW846 8082A
Aroclor 1254		7070	730	190	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1760	730	110	ug/kg	SW846 8082A
<b>MC41122-43</b>	<b>S-082715-GW-43</b>					
Aroclor 1248 <sup>a</sup>		4270	690	240	ug/kg	SW846 8082A
Aroclor 1254		7630	690	180	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1860	690	100	ug/kg	SW846 8082A
<b>MC41122-44</b>	<b>S-082715-GW-44</b>					
Aroclor 1248 <sup>a</sup>		3180	690	240	ug/kg	SW846 8082A
Aroclor 1254		5680	690	180	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1580	690	100	ug/kg	SW846 8082A
<b>MC41122-45</b>	<b>S-082715-GW-45</b>					
Aroclor 1248 <sup>a</sup>		902	200	71	ug/kg	SW846 8082A
Aroclor 1254		1460	200	53	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		322	41	6.0	ug/kg	SW846 8082A

## Summary of Hits

**Job Number:** MC41122  
**Account:** GHD Services Inc.  
**Project:** Behr, Peoria, IL  
**Collected:** 08/26/15 thru 08/27/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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### MC41122-46 S-082715-GW-51

Bulk Density (Dry Basis) <sup>c</sup>	1.1				g/ml	ASTM D2937-94 M
Ignitability (Flashpoint)	> 230				Deg. F	SW846 1020
Paint Filter Test	< 0.50	0.50			ml/100g	SW846 9095
Solids, Total	883000	100			mg/kg	SM 2540B-11 MOD.
Total Organic Halides <sup>c</sup>	24.3	24			mg/kg	SW846 9023
pH	8.0				su	SW846 9045D
Barium	2.3	0.50	0.0010		mg/l	SW846 6010C
Cadmium	0.19	0.0040	0.00043		mg/l	SW846 6010C
Chromium	0.0035 B	0.010	0.00048		mg/l	SW846 6010C
Lead	0.25	0.010	0.0017		mg/l	SW846 6010C

### MC41122-47 S-082715-GW-52

Bulk Density (Dry Basis) <sup>c</sup>	1.3				g/ml	ASTM D2937-94 M
Ignitability (Flashpoint)	> 230				Deg. F	SW846 1020
Paint Filter Test	< 0.50	0.50			ml/100g	SW846 9095
Solids, Total	866000	90			mg/kg	SM 2540B-11 MOD.
pH	8.3				su	SW846 9045D
Barium	2.0	0.50	0.0010		mg/l	SW846 6010C
Cadmium	0.11	0.0040	0.00043		mg/l	SW846 6010C
Chromium	0.0033 B	0.010	0.00048		mg/l	SW846 6010C
Lead	0.50	0.010	0.0017		mg/l	SW846 6010C

### MC41122-48 S-082715-GW-53

Bulk Density (Dry Basis) <sup>c</sup>	1.2				g/ml	ASTM D2937-94 M
Ignitability (Flashpoint)	> 230				Deg. F	SW846 1020
Paint Filter Test	< 0.50	0.50			ml/100g	SW846 9095
Solids, Total	892000	110			mg/kg	SM 2540B-11 MOD.
Total Organic Halides <sup>c</sup>	37.7	23			mg/kg	SW846 9023
pH	8.2				su	SW846 9045D
Barium	2.5	0.50	0.0010		mg/l	SW846 6010C
Cadmium	0.13	0.0040	0.00043		mg/l	SW846 6010C
Chromium	0.0022 B	0.010	0.00048		mg/l	SW846 6010C
Lead	4.8	0.010	0.0017		mg/l	SW846 6010C

### MC41122-49 S-082715-GW-54

Bulk Density (Dry Basis) <sup>c</sup>	1.3				g/ml	ASTM D2937-94 M
Ignitability (Flashpoint)	> 230				Deg. F	SW846 1020
Paint Filter Test	< 0.50	0.50			ml/100g	SW846 9095
Solids, Total	907000	82			mg/kg	SM 2540B-11 MOD.
pH	8.1				su	SW846 9045D

## Summary of Hits

**Job Number:** MC41122  
**Account:** GHD Services Inc.  
**Project:** Behr, Peoria, IL  
**Collected:** 08/26/15 thru 08/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Barium		2.7	0.50	0.0010	mg/l	SW846 6010C
Cadmium		0.14	0.0040	0.00043	mg/l	SW846 6010C
Chromium		0.0029 B	0.010	0.00048	mg/l	SW846 6010C
Lead		2.8	0.010	0.0017	mg/l	SW846 6010C
<b>MC41122-50 S-082715-GW-46</b>						
Aroclor 1248 <sup>a</sup>		1740	420	150	ug/kg	SW846 8082A
Aroclor 1254		2490	420	110	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		525	42	6.1	ug/kg	SW846 8082A
<b>MC41122-51 S-082715-GW-47</b>						
Aroclor 1248 <sup>a</sup>		8720	1800	640	ug/kg	SW846 8082A
Aroclor 1254		11600	1800	480	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2570	1800	270	ug/kg	SW846 8082A
<b>MC41122-52 S-082715-GW-48</b>						
Aroclor 1248 <sup>a</sup>		10900	3600	1300	ug/kg	SW846 8082A
Aroclor 1254		28200	3600	930	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		4150	3600	520	ug/kg	SW846 8082A
<b>MC41122-53 S-082715-GW-49</b>						
Aroclor 1248 <sup>a</sup>		4010	710	250	ug/kg	SW846 8082A
Aroclor 1254		6710	710	190	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		1620	710	100	ug/kg	SW846 8082A
<b>MC41122-54 S-082715-GW-50</b>						
Aroclor 1248 <sup>a</sup>		4970	1700	610	ug/kg	SW846 8082A
Aroclor 1254		9610	1700	450	ug/kg	SW846 8082A
Aroclor 1260 <sup>a</sup>		2240	1700	250	ug/kg	SW846 8082A

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Estimated value due to the presence of other Aroclor pattern. Confirmation value > 40 % RPD.

(c) Analysis performed at Accutest Laboratories, Dayton, NJ.

## Sample Results

## Report of Analysis

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-01	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-1	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.0
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51435.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64508.D	50	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51338.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml
Run #3	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	6770 <sup>c</sup>	1800	640	ug/kg	
11097-69-1	Aroclor 1254	10100 <sup>c</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	2340 <sup>c</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	92%	0% <sup>d</sup>	98%	35-136%
877-09-8	Tetrachloro-m-xylene	90%	0% <sup>d</sup>	97%	35-136%
2051-24-3	Decachlorobiphenyl	135%	0% <sup>d</sup>	122%	24-171%
2051-24-3	Decachlorobiphenyl	123%	0% <sup>d</sup>	118%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-02	
<b>Lab Sample ID:</b>	MC41122-2	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 83.4
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51436.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64509.D	100	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51339.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml
Run #3	15.3 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	11	ug/kg	
11104-28-2	Aroclor 1221	ND	40	9.9	ug/kg	
11141-16-5	Aroclor 1232	ND	40	12	ug/kg	
53469-21-9	Aroclor 1242	ND	40	12	ug/kg	
12672-29-6	Aroclor 1248	42900 <sup>b</sup>	4000	1400	ug/kg	
11097-69-1	Aroclor 1254 <sup>c</sup>	38900 <sup>b</sup>	4000	1000	ug/kg	
11096-82-5	Aroclor 1260 <sup>c</sup>	3970 <sup>b</sup>	4000	580	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	95%	0% <sup>d</sup>	103%	35-136%
877-09-8	Tetrachloro-m-xylene	89%	0% <sup>d</sup>	86%	35-136%
2051-24-3	Decachlorobiphenyl	122%	0% <sup>d</sup>	127%	24-171%
2051-24-3	Decachlorobiphenyl	119%	0% <sup>d</sup>	133%	24-171%

(a) Confirmation run.

(b) Result is from Run# 2

(c) Estimated value due to the presence of other Aroclor pattern.

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-03	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-3	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.8
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51437.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64510.D	100	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51340.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml
Run #3	15.0 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	15200 <sup>b</sup>	3600	1300	ug/kg	
11097-69-1	Aroclor 1254 <sup>c</sup>	13000 <sup>b</sup>	3600	950	ug/kg	
11096-82-5	Aroclor 1260 <sup>c</sup>	2620 <sup>b</sup>	3600	530	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	109%	0% <sup>d</sup>	52%	35-136%
877-09-8	Tetrachloro-m-xylene	98%	0% <sup>d</sup>	54%	35-136%
2051-24-3	Decachlorobiphenyl	136%	0% <sup>d</sup>	65%	24-171%
2051-24-3	Decachlorobiphenyl	129%	0% <sup>d</sup>	64%	24-171%

(a) Confirmation run.

(b) Result is from Run# 2

(c) Estimated value due to the presence of other Aroclor pattern.

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-04	
<b>Lab Sample ID:</b>	MC41122-4	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 87.8
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51438.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64511.D	100	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51341.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2	15.9 g	10.0 ml
Run #3	15.0 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	8.9	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	12500 <sup>c</sup>	3600	1300	ug/kg	
11097-69-1	Aroclor 1254	14800 <sup>c</sup>	3600	930	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	3100 <sup>c</sup>	3600	520	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	99%	0% <sup>d</sup>	97%	35-136%
877-09-8	Tetrachloro-m-xylene	93%	0% <sup>d</sup>	98%	35-136%
2051-24-3	Decachlorobiphenyl	127%	0% <sup>d</sup>	119%	24-171%
2051-24-3	Decachlorobiphenyl	146%	0% <sup>d</sup>	119%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-05	
<b>Lab Sample ID:</b>	MC41122-5	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 88.3
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51439.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64512.D	100	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51342.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2	15.4 g	10.0 ml
Run #3	15.8 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.2	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	11000 <sup>c</sup>	3700	1300	ug/kg	
11097-69-1	Aroclor 1254	15900 <sup>c</sup>	3700	960	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	3140 <sup>c</sup>	3700	540	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	99%	0% <sup>d</sup>	99%	35-136%
877-09-8	Tetrachloro-m-xylene	91%	0% <sup>d</sup>	98%	35-136%
2051-24-3	Decachlorobiphenyl	127%	0% <sup>d</sup>	120%	24-171%
2051-24-3	Decachlorobiphenyl	138%	0% <sup>d</sup>	132%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-06	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-6	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.9
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51440.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64513.D	20	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51343.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml
Run #3	15.7 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.3	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	5130 <sup>c</sup>	740	260	ug/kg	
11097-69-1	Aroclor 1254	5740 <sup>c</sup>	740	190	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	1300 <sup>c</sup>	740	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	101%	0% <sup>d</sup>	35%	35-136%
877-09-8	Tetrachloro-m-xylene	97%	0% <sup>d</sup>	37%	35-136%
2051-24-3	Decachlorobiphenyl	145%	0% <sup>d</sup>	52%	24-171%
2051-24-3	Decachlorobiphenyl	145%	0% <sup>d</sup>	50%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-07	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-7	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.8
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51441.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64514.D	20	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51344.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2	15.8 g	10.0 ml
Run #3	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	10	ug/kg	
11104-28-2	Aroclor 1221	ND	35	8.8	ug/kg	
11141-16-5	Aroclor 1232	ND	35	10	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	4070 <sup>c</sup>	710	250	ug/kg	
11097-69-1	Aroclor 1254	7380 <sup>c</sup>	710	180	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	1640 <sup>c</sup>	710	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	98%	0% <sup>d</sup>	98%	35-136%
877-09-8	Tetrachloro-m-xylene	94%	0% <sup>d</sup>	96%	35-136%
2051-24-3	Decachlorobiphenyl	132%	0% <sup>d</sup>	118%	24-171%
2051-24-3	Decachlorobiphenyl	120%	0% <sup>d</sup>	124%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-08	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-8	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.7
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51443.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64515.D	50	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51345.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2	16.0 g	10.0 ml
Run #3	15.5 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	8.9	ug/kg	
11141-16-5	Aroclor 1232	ND	36	10	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	5300 <sup>c</sup>	1800	630	ug/kg	
11097-69-1	Aroclor 1254	7900 <sup>c</sup>	1800	470	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	2030 <sup>c</sup>	1800	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	100%	0% <sup>d</sup>	90%	35-136%
877-09-8	Tetrachloro-m-xylene	99%	0% <sup>d</sup>	84%	35-136%
2051-24-3	Decachlorobiphenyl	123%	0% <sup>d</sup>	118%	24-171%
2051-24-3	Decachlorobiphenyl	142%	0% <sup>d</sup>	124%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-09	
<b>Lab Sample ID:</b>	MC41122-9	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 90.8
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51445.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64516.D	50	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51347.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml
Run #3	15.0 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	8980 <sup>c</sup>	1800	640	ug/kg	
11097-69-1	Aroclor 1254	11700 <sup>c</sup>	1800	470	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	2330 <sup>c</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	82%	0% <sup>d</sup>	95%	35-136%
877-09-8	Tetrachloro-m-xylene	87%	0% <sup>d</sup>	95%	35-136%
2051-24-3	Decachlorobiphenyl	131%	0% <sup>d</sup>	116%	24-171%
2051-24-3	Decachlorobiphenyl	95%	0% <sup>d</sup>	111%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-10	
<b>Lab Sample ID:</b>	MC41122-10	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 91.1
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51446.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64517.D	50	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51348.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml
Run #3	15.3 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	8040 <sup>c</sup>	1800	640	ug/kg	
11097-69-1	Aroclor 1254	12200 <sup>c</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	3000 <sup>c</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	106%	0% <sup>d</sup>	95%	35-136%
877-09-8	Tetrachloro-m-xylene	103%	0% <sup>d</sup>	89%	35-136%
2051-24-3	Decachlorobiphenyl	149%	0% <sup>d</sup>	130%	24-171%
2051-24-3	Decachlorobiphenyl	142%	0% <sup>d</sup>	121%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-11	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-11	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.0
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51447.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64519.D	20	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51349.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml
Run #3	15.5 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.2	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	3450 <sup>c</sup>	740	260	ug/kg	
11097-69-1	Aroclor 1254	4200 <sup>c</sup>	740	190	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	1560 <sup>c</sup>	740	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	106%	0% <sup>d</sup>	100%	35-136%
877-09-8	Tetrachloro-m-xylene	102%	0% <sup>d</sup>	97%	35-136%
2051-24-3	Decachlorobiphenyl	117%	0% <sup>d</sup>	103%	24-171%
2051-24-3	Decachlorobiphenyl	120%	0% <sup>d</sup>	105%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-12	
<b>Lab Sample ID:</b>	MC41122-12	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 89.5
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51448.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64520.D	10	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51350.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2	15.5 g	10.0 ml
Run #3	15.4 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.0	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	2800 <sup>c</sup>	360	130	ug/kg	
11097-69-1	Aroclor 1254	3480 <sup>c</sup>	360	94	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	1120 <sup>c</sup>	360	53	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	107%	108%	96%	35-136%
877-09-8	Tetrachloro-m-xylene	106%	111%	94%	35-136%
2051-24-3	Decachlorobiphenyl	117%	139%	104%	24-171%
2051-24-3	Decachlorobiphenyl	110%	167%	104%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-13	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-13	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.9
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51449.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64521.D	50	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51351.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2	15.0 g	10.0 ml
Run #3	15.4 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.9	ug/kg	
11104-28-2	Aroclor 1221	ND	35	8.7	ug/kg	
11141-16-5	Aroclor 1232	ND	35	10	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	7450 <sup>c</sup>	1700	610	ug/kg	
11097-69-1	Aroclor 1254	12500 <sup>c</sup>	1700	450	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	3120 <sup>c</sup>	1700	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	95%	0% <sup>d</sup>	102%	35-136%
877-09-8	Tetrachloro-m-xylene	91%	0% <sup>d</sup>	91%	35-136%
2051-24-3	Decachlorobiphenyl	134%	0% <sup>d</sup>	143%	24-171%
2051-24-3	Decachlorobiphenyl	137%	0% <sup>d</sup>	146%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-14	
<b>Lab Sample ID:</b>	MC41122-14	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 89.1
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51560.D	1	09/16/15	NK	09/15/15	OP44631	GBK1612
Run #2	BK51564.D	100	09/16/15	NK	09/15/15	OP44631	GBK1612
Run #3 <sup>a</sup>	BK51352.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2	15.0 g	10.0 ml
Run #3	15.7 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	11	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.4	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	16500 <sup>c</sup>	3700	1300	ug/kg	
11097-69-1	Aroclor 1254	19800 <sup>c</sup>	3700	980	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	3130 <sup>c</sup>	3700	550	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	97%	0% <sup>d</sup>	98%	35-136%
877-09-8	Tetrachloro-m-xylene	89%	0% <sup>d</sup>	97%	35-136%
2051-24-3	Decachlorobiphenyl	120%	0% <sup>d</sup>	110%	24-171%
2051-24-3	Decachlorobiphenyl	116%	0% <sup>d</sup>	101%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

**Client Sample ID:** S-082615-GW-15**Lab Sample ID:** MC41122-15**Date Sampled:** 08/26/15**Matrix:** SO - Soil**Date Received:** 08/29/15**Method:** SW846 8082A SW846 3540C**Percent Solids:** 91.7**Project:** Behr, Peoria, IL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51451.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64523.D	50	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51353.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml
Run #3	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.0	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	8020 <sup>c</sup>	1800	630	ug/kg	
11097-69-1	Aroclor 1254	11000 <sup>c</sup>	1800	470	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	2650 <sup>c</sup>	1800	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	99%	0% <sup>d</sup>	102%	35-136%
877-09-8	Tetrachloro-m-xylene	98%	0% <sup>d</sup>	95%	35-136%
2051-24-3	Decachlorobiphenyl	138%	0% <sup>d</sup>	132%	24-171%
2051-24-3	Decachlorobiphenyl	125%	0% <sup>d</sup>	120%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

**Client Sample ID:** S-082615-GW-16**Lab Sample ID:** MC41122-16**Date Sampled:** 08/26/15**Matrix:** SO - Soil**Date Received:** 08/29/15**Method:** SW846 8082A SW846 3540C**Percent Solids:** 89.5**Project:** Behr, Peoria, IL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51452.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64524.D	50	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51354.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml
Run #3	15.4 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.2	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	7110 <sup>c</sup>	1800	650	ug/kg	
11097-69-1	Aroclor 1254	13600 <sup>c</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	4170 <sup>c</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	105%	0% <sup>d</sup>	101%	35-136%
877-09-8	Tetrachloro-m-xylene	96%	0% <sup>d</sup>	101%	35-136%
2051-24-3	Decachlorobiphenyl	149%	0% <sup>d</sup>	136%	24-171%
2051-24-3	Decachlorobiphenyl	144%	0% <sup>d</sup>	128%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-17	
<b>Lab Sample ID:</b>	MC41122-17	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 89.8
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51454.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64525.D	20	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51355.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2	15.7 g	10.0 ml
Run #3	15.4 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	8.9	ug/kg	
11141-16-5	Aroclor 1232	ND	36	10	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	2000 <sup>c</sup>	710	250	ug/kg	
11097-69-1	Aroclor 1254	4150 <sup>c</sup>	710	190	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	1040 <sup>c</sup>	710	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	80%	0% <sup>d</sup>	98%	35-136%
877-09-8	Tetrachloro-m-xylene	81%	0% <sup>d</sup>	92%	35-136%
2051-24-3	Decachlorobiphenyl	109%	0% <sup>d</sup>	149%	24-171%
2051-24-3	Decachlorobiphenyl	107%	0% <sup>d</sup>	128%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-18	
<b>Lab Sample ID:</b>	MC41122-18	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 89.5
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51455.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
Run #2	BB64526.D	50	09/14/15	NK	09/11/15	OP44590	GBB3483
Run #3 <sup>a</sup>	BK51356.D	1	09/10/15	NK	09/02/15	OP44467	GBK1606

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml
Run #3	16.0 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	11	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.3	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	2720 <sup>c</sup>	1900	650	ug/kg	
11097-69-1	Aroclor 1254	4710 <sup>c</sup>	1900	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	1260 <sup>c</sup>	1900	270	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	45%	0% <sup>d</sup>	103%	35-136%
877-09-8	Tetrachloro-m-xylene	46%	0% <sup>d</sup>	109%	35-136%
2051-24-3	Decachlorobiphenyl	70%	0% <sup>d</sup>	139%	24-171%
2051-24-3	Decachlorobiphenyl	69%	0% <sup>d</sup>	120%	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-19	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-19	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.2
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51456.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51501.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2	15.0 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	9480 <sup>b</sup>	1800	640	ug/kg	
11097-69-1	Aroclor 1254	13500 <sup>b</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	3140 <sup>b</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	115%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	107%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	145%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	158%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-20	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-20	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.9
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51457.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51502.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.2	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	15700 <sup>b</sup>	1800	650	ug/kg	
11097-69-1	Aroclor 1254	17300 <sup>b</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>c</sup>	2250 <sup>b</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%	0% <sup>d</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	90%	0% <sup>d</sup>	35-136%
2051-24-3	Decachlorobiphenyl	128%	0% <sup>d</sup>	24-171%
2051-24-3	Decachlorobiphenyl	100%	0% <sup>d</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern. Confirmation value > 40 % RPD.

(b) Result is from Run# 2

(c) Estimated value due to the presence of other Aroclor pattern.

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-21	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-21	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	93.0
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51458.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51503.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2	15.5 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.8	ug/kg	
11104-28-2	Aroclor 1221	ND	35	8.7	ug/kg	
11141-16-5	Aroclor 1232	ND	35	10	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	13400 <sup>b</sup>	1700	610	ug/kg	
11097-69-1	Aroclor 1254	18700 <sup>b</sup>	1700	450	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	4140 <sup>b</sup>	1700	250	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	101%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	151%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	165%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-22	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-22	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.2
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51459.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51504.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.2	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	6320 <sup>b</sup>	1800	650	ug/kg	
11097-69-1	Aroclor 1254	13000 <sup>b</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	3110 <sup>b</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	84%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	128%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	128%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-23	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-23	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.6
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51460.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51505.D	20	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2	15.0 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	11	ug/kg	
11104-28-2	Aroclor 1221	ND	38	9.6	ug/kg	
11141-16-5	Aroclor 1232	ND	38	11	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	6100 <sup>b</sup>	770	270	ug/kg	
11097-69-1	Aroclor 1254	9210 <sup>b</sup>	770	200	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	1830 <sup>b</sup>	770	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	117%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	114%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	134%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	137%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-24	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-24	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	85.3
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51461.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51506.D	20	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	11	ug/kg	
11104-28-2	Aroclor 1221	ND	39	9.7	ug/kg	
11141-16-5	Aroclor 1232	ND	39	11	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	7770 <sup>b</sup>	780	270	ug/kg	
11097-69-1	Aroclor 1254	9800 <sup>b</sup>	780	200	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	2180 <sup>b</sup>	780	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	108%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	109%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	144%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	137%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-25	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-25	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.3
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51462.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51507.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2	15.4 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	8.9	ug/kg	
11141-16-5	Aroclor 1232	ND	36	10	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	10900 <sup>a</sup>	1800	630	ug/kg	
11097-69-1	Aroclor 1254 <sup>b</sup>	9790 <sup>a</sup>	1800	470	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	2360 <sup>a</sup>	1800	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	59%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	124%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	119%	0% <sup>c</sup>	24-171%

(a) Result is from Run# 2

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-26	
<b>Lab Sample ID:</b>	MC41122-26	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 90.8
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51463.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51508.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	10700 <sup>b</sup>	1800	640	ug/kg	
11097-69-1	Aroclor 1254	14100 <sup>b</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	3350 <sup>b</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	103%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	156%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	143%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-27	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-27	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.9
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51465.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51509.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	11	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.4	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	11500 <sup>b</sup>	1900	660	ug/kg	
11097-69-1	Aroclor 1254	13800 <sup>b</sup>	1900	490	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	2930 <sup>b</sup>	1900	280	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	95%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	144%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	134%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-28	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-28	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.0
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51466.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51510.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2	15.5 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.0	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	7850 <sup>b</sup>	1800	630	ug/kg	
11097-69-1	Aroclor 1254	12400 <sup>b</sup>	1800	470	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	2820 <sup>b</sup>	1800	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	97%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	133%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	140%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-29	
<b>Lab Sample ID:</b>	MC41122-29	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 92.1
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51467.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51512.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.0	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	13200 <sup>b</sup>	1800	630	ug/kg	
11097-69-1	Aroclor 1254	17500 <sup>b</sup>	1800	470	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	4460 <sup>b</sup>	1800	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	108%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	139%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	134%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-30	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-30	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.4
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51468.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51513.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.2	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	11300 <sup>b</sup>	1800	650	ug/kg	
11097-69-1	Aroclor 1254	15000 <sup>b</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	2690 <sup>b</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	94%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	129%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	122%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-31	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-31	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.8
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51469.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51514.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2	15.8 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	10	ug/kg	
11104-28-2	Aroclor 1221	ND	35	8.8	ug/kg	
11141-16-5	Aroclor 1232	ND	35	10	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	8260 <sup>b</sup>	1800	620	ug/kg	
11097-69-1	Aroclor 1254	12200 <sup>b</sup>	1800	460	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	2860 <sup>b</sup>	1800	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	101%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	147%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	140%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-32	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-32	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	85.9
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51470.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51515.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	11	ug/kg	
11104-28-2	Aroclor 1221	ND	38	9.6	ug/kg	
11141-16-5	Aroclor 1232	ND	38	11	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	21300 <sup>b</sup>	1900	680	ug/kg	
11097-69-1	Aroclor 1254	22100 <sup>b</sup>	1900	500	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	3410 <sup>b</sup>	1900	280	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	117%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	113%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	161%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	135%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-33	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-33	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.3
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51471.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51516.D	100	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	11	ug/kg	
11104-28-2	Aroclor 1221	ND	38	9.6	ug/kg	
11141-16-5	Aroclor 1232	ND	38	11	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	22700 <sup>b</sup>	3800	1400	ug/kg	
11097-69-1	Aroclor 1254	39800 <sup>b</sup>	3800	1000	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	5930 <sup>b</sup>	3800	560	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	108%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	101%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	151%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	139%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-34	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-34	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	82.9
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51472.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
Run #2	BK51517.D	200	09/15/15	NK	09/09/15	OP44490	GBK1610

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2	15.6 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	11	ug/kg	
11104-28-2	Aroclor 1221	ND	39	9.7	ug/kg	
11141-16-5	Aroclor 1232	ND	39	11	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	20600 <sup>b</sup>	7700	2700	ug/kg	
11097-69-1	Aroclor 1254	69100 <sup>b</sup>	7700	2000	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	8790 <sup>b</sup>	7700	1100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	100%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	153%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	136%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-35	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-35	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.9
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51444.D	1	09/14/15	NK	09/09/15	OP44491	GBK1609
Run #2	BB64527.D	50	09/14/15	NK	09/09/15	OP44491	GBB3483

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2	15.7 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.0	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	6120 <sup>b</sup>	1800	630	ug/kg	
11097-69-1	Aroclor 1254	10800 <sup>b</sup>	1800	470	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	4310 <sup>b</sup>	1800	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	93%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	131%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	88%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-36	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-36	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.2
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51473.D	1	09/14/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64530.D	50	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	10	ug/kg	
11104-28-2	Aroclor 1221	ND	37	9.2	ug/kg	
11141-16-5	Aroclor 1232	ND	37	11	ug/kg	
53469-21-9	Aroclor 1242	ND	37	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	8540 <sup>b</sup>	1800	640	ug/kg	
11097-69-1	Aroclor 1254	14100 <sup>b</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	3010 <sup>b</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	91%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	118%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	121%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-37	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-37	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.9
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51474.D	1	09/14/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64531.D	50	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2	15.5 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	8.9	ug/kg	
11141-16-5	Aroclor 1232	ND	36	10	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	9560 <sup>b</sup>	1800	630	ug/kg	
11097-69-1	Aroclor 1254	15400 <sup>b</sup>	1800	460	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	3590 <sup>b</sup>	1800	260	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	100%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	110%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	149%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-38	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-38	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.1
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51476.D	1	09/14/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64532.D	20	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	3560 <sup>b</sup>	730	260	ug/kg	
11097-69-1	Aroclor 1254	6230 <sup>b</sup>	730	190	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	1640 <sup>b</sup>	730	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	95%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	120%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	110%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-39	
<b>Lab Sample ID:</b>	MC41122-39	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 81.0
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51561.D	1	09/16/15	NK	09/15/15	OP44631	GBK1612
Run #2	BK51565.D	10	09/16/15	NK	09/15/15	OP44631	GBK1612
Run #3 <sup>a</sup>	BK51477.D	1	09/14/15	NK	09/09/15	OP44491	GBK1609

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml
Run #3	15.3 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	11	ug/kg	
11104-28-2	Aroclor 1221	ND	40	10	ug/kg	
11141-16-5	Aroclor 1232	ND	40	12	ug/kg	
53469-21-9	Aroclor 1242	ND	40	13	ug/kg	
12672-29-6	Aroclor 1248 <sup>b</sup>	4100 <sup>c</sup>	400	140	ug/kg	
11097-69-1	Aroclor 1254	4200 <sup>c</sup>	400	110	ug/kg	
11096-82-5	Aroclor 1260 <sup>b</sup>	762	40	5.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	96%	100%	14% <sup>d</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	94%	97%	13% <sup>d</sup>	35-136%
2051-24-3	Decachlorobiphenyl	113%	129%	20% <sup>d</sup>	24-171%
2051-24-3	Decachlorobiphenyl	106%	139%	21% <sup>d</sup>	24-171%

(a) Confirmation run.

(b) Estimated value due to the presence of other Aroclor pattern.

(c) Result is from Run# 2

(d) Outside control limits due to possible matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-40	
<b>Lab Sample ID:</b>	MC41122-40	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 78.7
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51478.D	1	09/14/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64534.D	10	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2	16.0 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	11	ug/kg	
11104-28-2	Aroclor 1221	ND	40	10	ug/kg	
11141-16-5	Aroclor 1232	ND	40	12	ug/kg	
53469-21-9	Aroclor 1242	ND	40	12	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	2100 <sup>b</sup>	400	140	ug/kg	
11097-69-1	Aroclor 1254	3470 <sup>b</sup>	400	100	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	863 <sup>b</sup>	400	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%	68%	35-136%
877-09-8	Tetrachloro-m-xylene	69%	63%	35-136%
2051-24-3	Decachlorobiphenyl	88%	107%	24-171%
2051-24-3	Decachlorobiphenyl	89%	127%	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-41	<b>Date Sampled:</b>	08/26/15
<b>Lab Sample ID:</b>	MC41122-41	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.6
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51479.D	1	09/14/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64535.D	20	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	8.9	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	5070 <sup>b</sup>	720	250	ug/kg	
11097-69-1	Aroclor 1254	8570 <sup>b</sup>	720	190	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	2670 <sup>b</sup>	720	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	86%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	115%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	133%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082615-GW-42	
<b>Lab Sample ID:</b>	MC41122-42	<b>Date Sampled:</b> 08/26/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b> 08/29/15
<b>Method:</b>	SW846 8082A SW846 3540C	<b>Percent Solids:</b> 89.9
<b>Project:</b>	Behr, Peoria, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51480.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64536.D	20	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	4620 <sup>b</sup>	730	260	ug/kg	
11097-69-1	Aroclor 1254	7070 <sup>b</sup>	730	190	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	1760 <sup>b</sup>	730	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	94%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	115%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	151%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-43	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-43	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.6
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51481.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64537.D	20	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2	16.0 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.8	ug/kg	
11104-28-2	Aroclor 1221	ND	35	8.6	ug/kg	
11141-16-5	Aroclor 1232	ND	35	10	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	4270 <sup>b</sup>	690	240	ug/kg	
11097-69-1	Aroclor 1254	7630 <sup>b</sup>	690	180	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	1860 <sup>b</sup>	690	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	93%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	128%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	121%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-44	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-44	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	93.7
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51482.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64538.D	20	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2	15.4 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.8	ug/kg	
11104-28-2	Aroclor 1221	ND	35	8.7	ug/kg	
11141-16-5	Aroclor 1232	ND	35	10	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	3180 <sup>b</sup>	690	240	ug/kg	
11097-69-1	Aroclor 1254	5680 <sup>b</sup>	690	180	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	1580 <sup>b</sup>	690	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	59%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	82%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	92%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-45	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-45	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	78.5
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51483.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BB64539.D	5	09/15/15	NK	09/04/15	OP44491	GBB3484

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2	15.7 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	41	12	ug/kg	
11104-28-2	Aroclor 1221	ND	41	10	ug/kg	
11141-16-5	Aroclor 1232	ND	41	12	ug/kg	
53469-21-9	Aroclor 1242	ND	41	13	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	902 <sup>b</sup>	200	71	ug/kg	
11097-69-1	Aroclor 1254	1460 <sup>b</sup>	200	53	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	322	41	6.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%	56%	35-136%
877-09-8	Tetrachloro-m-xylene	64%	60%	35-136%
2051-24-3	Decachlorobiphenyl	70%	83%	24-171%
2051-24-3	Decachlorobiphenyl	69%	93%	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-51	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-46	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.3
<b>Method:</b>	SW846 8260C SW846 1311		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74857.D	100	09/12/15	KP	09/01/15	GP19518	MSH2490
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.10	0.027	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	1.0	0.30	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.20	0.034	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.20	0.024	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.20	0.040	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.20	0.037	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.20	0.030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.20	0.028	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.20	0.021	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.20	0.025	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	127%		74-135%
2037-26-5	Toluene-D8	113%		83-116%
460-00-4	4-Bromofluorobenzene	104%		76-124%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6(g))  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-51	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-46	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.3
<b>Method:</b>	SW846 8270D SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X06955.D	1	09/08/15	MR	09/05/15	OP44507	MSX218
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

## ABN TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.10	0.0021	mg/l	
	3&4-Methylphenol	ND	D024	200	0.10	0.0047	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.0030	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.10	0.0034	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.10	0.0030	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	0.0023	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.10	0.015	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	0.0077	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	0.0024	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0029	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	0.0026	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.10	0.013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		10-73%
4165-62-2	Phenol-d5	32%		10-58%
118-79-6	2,4,6-Tribromophenol	97%		15-125%
4165-60-0	Nitrobenzene-d5	79%		23-120%
321-60-8	2-Fluorobiphenyl	67%		31-102%
1718-51-0	Terphenyl-d14	100%		42-124%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-51		
<b>Lab Sample ID:</b>	MC41122-46	<b>Date Sampled:</b>	08/27/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b>	08/29/15
<b>Method:</b>	SW846 8151 SW846 3510C	<b>Percent Solids:</b>	87.3
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ94968.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

## Herbicide TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.010	0.0046	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.010	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	41%		30-150%
19719-28-9	2,4-DCAA	52%		30-150%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-51	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-46	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.3
<b>Method:</b>	SW846 8081B SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE47934.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

## Pesticide TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.00050	0.00011	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	0.0011	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.00050	0.00018	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.00050	0.00014	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.00050	0.000097	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00050	0.00017	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.025	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		30-150%
877-09-8	Tetrachloro-m-xylene	72%		30-150%
2051-24-3	Decachlorobiphenyl	94%		30-150%
2051-24-3	Decachlorobiphenyl	96%		30-150%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: S-082715-GW-51

Lab Sample ID: MC41122-46

Matrix: SO - Soil

Project: Behr, Peoria, IL

Date Sampled: 08/27/15

Date Received: 08/29/15

Percent Solids: 87.3

## Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0017 U	D004	5.0	0.010	0.0017	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Barium	2.3	D005	100	0.50	0.0010	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Cadmium	0.19	D006	1.0	0.0040	0.00043	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Chromium	0.0035 B	D007	5.0	0.010	0.00048	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Lead	0.25	D008	5.0	0.010	0.0017	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Mercury	0.000096 U	D009	0.20	0.00020	0.000096	mg/l	1	09/03/15	09/04/15	EC SW846 7470A <sup>2</sup>
Selenium	0.0020 U	D010	1.0	0.025	0.0020	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>

(1) Instrument QC Batch: MA18427

(2) Instrument QC Batch: MA18429

(3) Prep QC Batch: MP25080

(4) Prep QC Batch: MP25083

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result &lt; MDL

MCL = Maximum Contamination Level (40 CFR 261.6(g))

B = Indicates a result &gt; = MDL but &lt; RL

## Report of Analysis

**Client Sample ID:** S-082715-GW-51**Lab Sample ID:** MC41122-46**Matrix:** SO - Soil**Project:** Behr, Peoria, IL**Date Sampled:** 08/27/15**Date Received:** 08/29/15**Percent Solids:** 87.3**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Bulk Density (Dry Basis) <sup>a</sup>	1.1		g/ml	1	09/09/15	ANJ	ASTM D2937-94 M
Cyanide Reactivity	< 1.7	1.7	mg/kg	1	09/01/15 15:25	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	09/02/15	BF	SW846 1020
Paint Filter Test	< 0.50	0.50	ml/100g	1	09/08/15 16:08	CF	SW846 9095
Phenols	< 2.7	2.7	mg/kg	1	09/08/15 14:15	BF	SW846 9065 M
Solids, Percent	87.3		%	1	09/02/15	HS	SM 2540G-97 MOD
Solids, Total	883000	100	mg/kg	1	09/10/15	BF	SM 2540B-11 MOD.
Sulfide Reactivity	< 57	57	mg/kg	1	09/01/15	BF	SW846 CHAP7
Total Organic Halides <sup>a</sup>	24.3	24	mg/kg	1	09/14/15	ANJ	SW846 9023
pH	8.0		su	1	09/08/15	CF	SW846 9045D

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-52	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-47	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.6
<b>Method:</b>	SW846 8260C SW846 1311		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74858.D	100	09/12/15	KP	09/01/15	GP19518	MSH2490
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.10	0.027	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	1.0	0.30	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.20	0.034	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.20	0.024	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.20	0.040	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.20	0.037	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.20	0.030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.20	0.028	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.20	0.021	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.20	0.025	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	127%		74-135%
2037-26-5	Toluene-D8	112%		83-116%
460-00-4	4-Bromofluorobenzene	104%		76-124%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6(g))  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-52	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-47	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.6
<b>Method:</b>	SW846 8270D SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X06956.D	1	09/08/15	MR	09/05/15	OP44507	MSX218
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

## ABN TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.10	0.0021	mg/l	
	3&4-Methylphenol	ND	D024	200	0.10	0.0047	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.0030	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.10	0.0034	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.10	0.0030	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	0.0023	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.10	0.015	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	0.0077	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	0.0024	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0029	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	0.0026	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.10	0.013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		10-73%
4165-62-2	Phenol-d5	38%		10-58%
118-79-6	2,4,6-Tribromophenol	95%		15-125%
4165-60-0	Nitrobenzene-d5	92%		23-120%
321-60-8	2-Fluorobiphenyl	64%		31-102%
1718-51-0	Terphenyl-d14	93%		42-124%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-52		
<b>Lab Sample ID:</b>	MC41122-47	<b>Date Sampled:</b>	08/27/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b>	08/29/15
<b>Method:</b>	SW846 8151 SW846 3510C	<b>Percent Solids:</b>	87.6
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ94969.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

## Herbicide TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.010	0.0046	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.010	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	49%		30-150%
19719-28-9	2,4-DCAA	61%		30-150%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-52	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-47	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.6
<b>Method:</b>	SW846 8081B SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE47935.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

## Pesticide TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.00050	0.00011	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	0.0011	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.00050	0.00018	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.00050	0.00014	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.00050	0.000097	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00050	0.00017	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.025	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	65%		30-150%
877-09-8	Tetrachloro-m-xylene	60%		30-150%
2051-24-3	Decachlorobiphenyl	91%		30-150%
2051-24-3	Decachlorobiphenyl	94%		30-150%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: S-082715-GW-52

Lab Sample ID: MC41122-47

Matrix: SO - Soil

Project: Behr, Peoria, IL

Date Sampled: 08/27/15

Date Received: 08/29/15

Percent Solids: 87.6

## Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0017 U	D004	5.0	0.010	0.0017	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Barium	2.0	D005	100	0.50	0.0010	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Cadmium	0.11	D006	1.0	0.0040	0.00043	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Chromium	0.0033 B	D007	5.0	0.010	0.00048	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Lead	0.50	D008	5.0	0.010	0.0017	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Mercury	0.000096 U	D009	0.20	0.00020	0.000096	mg/l	1	09/03/15	09/04/15	EC SW846 7470A <sup>2</sup>
Selenium	0.0020 U	D010	1.0	0.025	0.0020	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>

(1) Instrument QC Batch: MA18427

(2) Instrument QC Batch: MA18429

(3) Prep QC Batch: MP25080

(4) Prep QC Batch: MP25083

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result &lt; MDL

MCL = Maximum Contamination Level (40 CFR 261.6(g))

B = Indicates a result &gt; = MDL but &lt; RL

## Report of Analysis

**Client Sample ID:** S-082715-GW-52**Lab Sample ID:** MC41122-47**Matrix:** SO - Soil**Project:** Behr, Peoria, IL**Date Sampled:** 08/27/15**Date Received:** 08/29/15**Percent Solids:** 87.6

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Bulk Density (Dry Basis) <sup>a</sup>	1.3		g/ml	1	09/09/15	ANJ	ASTM D2937-94 M
Cyanide Reactivity	< 1.7	1.7	mg/kg	1	09/01/15 15:25	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	09/02/15	BF	SW846 1020
Paint Filter Test	< 0.50	0.50	ml/100g	1	09/08/15 16:08	CF	SW846 9095
Phenols	< 2.8	2.8	mg/kg	1	09/08/15 14:15	BF	SW846 9065 M
Solids, Percent	87.6		%	1	09/02/15	HS	SM 2540G-97 MOD
Solids, Total	866000	90	mg/kg	1	09/10/15	BF	SM 2540B-11 MOD.
Sulfide Reactivity	< 57	57	mg/kg	1	09/01/15	BF	SW846 CHAP7
Total Organic Halides <sup>a</sup>	< 21	21	mg/kg	1	09/14/15	ANJ	SW846 9023
pH	8.3		su	1	09/08/15	CF	SW846 9045D

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-53	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-48	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.5
<b>Method:</b>	SW846 8260C SW846 1311		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74859.D	100	09/12/15	KP	09/01/15	GP19518	MSH2490
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.10	0.027	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	1.0	0.30	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.20	0.034	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.20	0.024	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.20	0.040	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.20	0.037	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.20	0.030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.20	0.028	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.20	0.021	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.20	0.025	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	128%		74-135%
2037-26-5	Toluene-D8	112%		83-116%
460-00-4	4-Bromofluorobenzene	100%		76-124%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6(g))  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-53	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-48	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.5
<b>Method:</b>	SW846 8270D SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X06957.D	1	09/08/15	MR	09/05/15	OP44507	MSX218
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

## ABN TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.10	0.0021	mg/l	
	3&4-Methylphenol	ND	D024	200	0.10	0.0047	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.0030	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.10	0.0034	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.10	0.0030	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	0.0023	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.10	0.015	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	0.0077	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	0.0024	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0029	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	0.0026	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.10	0.013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-73%
4165-62-2	Phenol-d5	31%		10-58%
118-79-6	2,4,6-Tribromophenol	88%		15-125%
4165-60-0	Nitrobenzene-d5	75%		23-120%
321-60-8	2-Fluorobiphenyl	63%		31-102%
1718-51-0	Terphenyl-d14	91%		42-124%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-53		
<b>Lab Sample ID:</b>	MC41122-48	<b>Date Sampled:</b>	08/27/15
<b>Matrix:</b>	SO - Soil	<b>Date Received:</b>	08/29/15
<b>Method:</b>	SW846 8151 SW846 3510C	<b>Percent Solids:</b>	89.5
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ94970.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

## Herbicide TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.010	0.0046	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.010	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	49%		30-150%
19719-28-9	2,4-DCAA	62%		30-150%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-53	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-48	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.5
<b>Method:</b>	SW846 8081B SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE47936.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

## Pesticide TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.00050	0.00011	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	0.0011	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.00050	0.00018	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.00050	0.00014	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.00050	0.000097	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00050	0.00017	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.025	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		30-150%
877-09-8	Tetrachloro-m-xylene	58%		30-150%
2051-24-3	Decachlorobiphenyl	87%		30-150%
2051-24-3	Decachlorobiphenyl	90%		30-150%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: S-082715-GW-53

Lab Sample ID: MC41122-48

Matrix: SO - Soil

Project: Behr, Peoria, IL

Date Sampled: 08/27/15

Date Received: 08/29/15

Percent Solids: 89.5

## Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0017 U	D004	5.0	0.010	0.0017	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Barium	2.5	D005	100	0.50	0.0010	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Cadmium	0.13	D006	1.0	0.0040	0.00043	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Chromium	0.0022 B	D007	5.0	0.010	0.00048	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Lead	4.8	D008	5.0	0.010	0.0017	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Mercury	0.000096 U	D009	0.20	0.00020	0.000096	mg/l	1	09/03/15	09/04/15	EC SW846 7470A <sup>2</sup>
Selenium	0.0020 U	D010	1.0	0.025	0.0020	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>

(1) Instrument QC Batch: MA18427

(2) Instrument QC Batch: MA18429

(3) Prep QC Batch: MP25080

(4) Prep QC Batch: MP25083

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result &lt; MDL

MCL = Maximum Contamination Level (40 CFR 261.6(g))

B = Indicates a result &gt; = MDL but &lt; RL

## Report of Analysis

**Client Sample ID:** S-082715-GW-53**Lab Sample ID:** MC41122-48**Matrix:** SO - Soil**Project:** Behr, Peoria, IL**Date Sampled:** 08/27/15**Date Received:** 08/29/15**Percent Solids:** 89.5**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Bulk Density (Dry Basis) <sup>a</sup>	1.2		g/ml	1	09/09/15	ANJ	ASTM D2937-94 M
Cyanide Reactivity	< 1.7	1.7	mg/kg	1	09/01/15 15:25	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	09/02/15	BF	SW846 1020
Paint Filter Test	< 0.50	0.50	ml/100g	1	09/08/15 16:08	CF	SW846 9095
Phenols	< 2.7	2.7	mg/kg	1	09/08/15 14:15	BF	SW846 9065 M
Solids, Percent	89.5		%	1	09/02/15	HS	SM 2540G-97 MOD
Solids, Total	892000	110	mg/kg	1	09/10/15	BF	SM 2540B-11 MOD.
Sulfide Reactivity	< 55	55	mg/kg	1	09/01/15	BF	SW846 CHAP7
Total Organic Halides <sup>a</sup>	37.7	23	mg/kg	1	09/14/15	ANJ	SW846 9023
pH	8.2		su	1	09/08/15	CF	SW846 9045D

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-54	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-49	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.1
<b>Method:</b>	SW846 8260C SW846 1311		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74860.D	100	09/12/15	KP	09/01/15	GP19518	MSH2490
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.10	0.027	mg/l	
78-93-3	2-Butanone (MEK)	ND	D035	200	1.0	0.30	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.20	0.034	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.20	0.024	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.20	0.040	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.20	0.037	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.20	0.030	mg/l	
75-35-4	1,1-Dichloroethene	ND	D029	0.70	0.20	0.028	mg/l	
127-18-4	Tetrachloroethene	ND	D039	0.70	0.20	0.021	mg/l	
79-01-6	Trichloroethene	ND	D040	0.50	0.20	0.025	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	135%		74-135%
2037-26-5	Toluene-D8	107%		83-116%
460-00-4	4-Bromofluorobenzene	100%		76-124%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6(g))  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-54	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-49	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.1
<b>Method:</b>	SW846 8270D SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X06958.D	1	09/08/15	MR	09/05/15	OP44507	MSX218
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

## ABN TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.10	0.0021	mg/l	
	3&4-Methylphenol	ND	D024	200	0.10	0.0047	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.10	0.0030	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.10	0.0034	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.10	0.0030	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	0.0023	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.10	0.015	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	0.0077	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	0.0024	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.0029	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	0.0026	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.10	0.013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		10-73%
4165-62-2	Phenol-d5	37%		10-58%
118-79-6	2,4,6-Tribromophenol	93%		15-125%
4165-60-0	Nitrobenzene-d5	90%		23-120%
321-60-8	2-Fluorobiphenyl	74%		31-102%
1718-51-0	Terphenyl-d14	93%		42-124%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-54	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-49	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.1
<b>Method:</b>	SW846 8151 SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ94971.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

## Herbicide TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.010	0.0046	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.010	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	49%		30-150%
19719-28-9	2,4-DCAA	62%		30-150%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-54	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-49	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.1
<b>Method:</b>	SW846 8081B SW846 3510C		
<b>Project:</b>	Behr, Peoria, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BE47937.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

## Pesticide TCLP Leachate

## TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.00050	0.00011	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	0.0011	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.00050	0.00018	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.00050	0.00014	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.00050	0.000097	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.00050	0.00017	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.025	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		30-150%
877-09-8	Tetrachloro-m-xylene	77%		30-150%
2051-24-3	Decachlorobiphenyl	89%		30-150%
2051-24-3	Decachlorobiphenyl	93%		30-150%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 261.6/96)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID: S-082715-GW-54

Lab Sample ID: MC41122-49

Matrix: SO - Soil

Project: Behr, Peoria, IL

Date Sampled: 08/27/15

Date Received: 08/29/15

Percent Solids: 91.1

## Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0017 U	D004	5.0	0.010	0.0017	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Barium	2.7	D005	100	0.50	0.0010	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Cadmium	0.14	D006	1.0	0.0040	0.00043	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Chromium	0.0029 B	D007	5.0	0.010	0.00048	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Lead	2.8	D008	5.0	0.010	0.0017	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Mercury	0.000096 U	D009	0.20	0.00020	0.000096	mg/l	1	09/03/15	09/04/15	EC SW846 7470A <sup>2</sup>
Selenium	0.0020 U	D010	1.0	0.025	0.0020	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	09/03/15	09/03/15	EAL SW846 6010C <sup>1</sup>

(1) Instrument QC Batch: MA18427

(2) Instrument QC Batch: MA18429

(3) Prep QC Batch: MP25080

(4) Prep QC Batch: MP25083

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result &lt; MDL

MCL = Maximum Contamination Level (40 CFR 261.6(g))

B = Indicates a result &gt; = MDL but &lt; RL

## Report of Analysis

**Client Sample ID:** S-082715-GW-54**Lab Sample ID:** MC41122-49**Matrix:** SO - Soil**Project:** Behr, Peoria, IL**Date Sampled:** 08/27/15**Date Received:** 08/29/15**Percent Solids:** 91.1**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Bulk Density (Dry Basis) <sup>a</sup>	1.3		g/ml	1	09/09/15	ANJ	ASTM D2937-94 M
Cyanide Reactivity	< 1.6	1.6	mg/kg	1	09/01/15 15:25	BF	SW846 CHAP7
Ignitability (Flashpoint)	> 230		Deg. F	1	09/02/15	BF	SW846 1020
Paint Filter Test	< 0.50	0.50	ml/100g	1	09/08/15 16:08	CF	SW846 9095
Phenols	< 2.7	2.7	mg/kg	1	09/08/15 14:15	BF	SW846 9065 M
Solids, Percent	91.1		%	1	09/02/15	HS	SM 2540G-97 MOD
Solids, Total	907000	82	mg/kg	1	09/10/15	BF	SM 2540B-11 MOD.
Sulfide Reactivity	< 54	54	mg/kg	1	09/01/15	BF	SW846 CHAP7
Total Organic Halides <sup>a</sup>	< 23	23	mg/kg	1	09/14/15	ANJ	SW846 9023
pH	8.1		su	1	09/08/15	CF	SW846 9045D

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-46	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-50	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	77.0
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51484.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BK51518.D	10	09/15/15	NK	09/04/15	OP44491	GBK1610

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2	15.5 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	42	12	ug/kg	
11104-28-2	Aroclor 1221	ND	42	10	ug/kg	
11141-16-5	Aroclor 1232	ND	42	12	ug/kg	
53469-21-9	Aroclor 1242	ND	42	13	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	1740 <sup>b</sup>	420	150	ug/kg	
11097-69-1	Aroclor 1254	2490 <sup>b</sup>	420	110	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	525	42	6.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	23% <sup>c</sup>	30% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	24% <sup>c</sup>	24% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	34%	41%	24-171%
2051-24-3	Decachlorobiphenyl	34%	48%	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-47	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-51	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.2
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51485.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BK51519.D	50	09/15/15	NK	09/04/15	OP44491	GBK1610

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2	15.2 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	9.1	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	8720 <sup>b</sup>	1800	640	ug/kg	
11097-69-1	Aroclor 1254	11600 <sup>b</sup>	1800	480	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	2570 <sup>b</sup>	1800	270	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	93%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	138%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	136%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-48	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-52	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.4
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51487.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BK51520.D	100	09/15/15	NK	09/04/15	OP44491	GBK1610

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2	15.5 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	8.9	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	10900 <sup>b</sup>	3600	1300	ug/kg	
11097-69-1	Aroclor 1254	28200 <sup>b</sup>	3600	930	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	4150 <sup>b</sup>	3600	520	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	81%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	122%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	122%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-49	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-53	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.2
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51488.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BK51521.D	20	09/15/15	NK	09/04/15	OP44491	GBK1610

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2	15.5 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	10	ug/kg	
11104-28-2	Aroclor 1221	ND	36	8.9	ug/kg	
11141-16-5	Aroclor 1232	ND	36	11	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	4010 <sup>b</sup>	710	250	ug/kg	
11097-69-1	Aroclor 1254	6710 <sup>b</sup>	710	190	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	1620 <sup>b</sup>	710	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	96%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	131%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	138%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-50	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-54	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	92.1
<b>Method:</b>	SW846 8082A SW846 3540C		
<b>Project:</b>	Behr, Peoria, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK51489.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
Run #2	BK51523.D	50	09/15/15	NK	09/04/15	OP44491	GBK1610

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2	15.6 g	10.0 ml

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.8	ug/kg	
11104-28-2	Aroclor 1221	ND	35	8.7	ug/kg	
11141-16-5	Aroclor 1232	ND	35	10	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248 <sup>a</sup>	4970 <sup>b</sup>	1700	610	ug/kg	
11097-69-1	Aroclor 1254	9610 <sup>b</sup>	1700	450	ug/kg	
11096-82-5	Aroclor 1260 <sup>a</sup>	2240 <sup>b</sup>	1700	250	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%	0% <sup>c</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	94%	0% <sup>c</sup>	35-136%
2051-24-3	Decachlorobiphenyl	110%	0% <sup>c</sup>	24-171%
2051-24-3	Decachlorobiphenyl	130%	0% <sup>c</sup>	24-171%

(a) Estimated value due to the presence of other Aroclor pattern.

(b) Result is from Run# 2

(c) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody


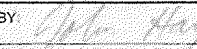

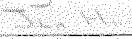



<b>CONESTOGA-ROVERS &amp; ASSOCIATES</b>  8615 W. Bryn Mawr Avenue Chicago, Illinois 60631 (773)380-9933 phone (773)380-6421 fax			SHIPPED TO (Laboratory Name): <span style="float: right;">MC41122</span>										
			REFERENCE NUMBER: 11103199					PROJECT NAME: Benthic Periphyton					
CHAIN-OF-CUSTODY RECORD													
SAMPLER'S SIGNATURE:			PRINTED NAME: Craig White			No. OF CONTAINERS	PARAMETERS						REMARKS
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.										
1	8/24/99	9:39	S-283-15 - (NW) - 01			S	1	X					
2		9:44	- 02				1	X					
3		9:11	- 03				1	X					
4		9:17	- 04				1	X					STANDARD
5		9:16	- 05				1	X					
6		9:40	- 06				1	X					TAT
7		9:53	- 07				1	X					
8		9:52	- 08				1	X					
9		9:53	- 09				1	X					
10		9:55	- 10				1	X					
11		9:55	- 11				1	X					
12		9:55	- 12				1	X					
13		9:57	- 13				1	X					
14		9:57	- 14				1	X					
15		9:57	- 15				1	X					
TOTAL NUMBER OF CONTAINERS						15							
RELINQUISHED BY: ①			DATE: 8-24-99 TIME: 10:00			RECEIVED BY: ②			DATE: _____ TIME: _____				
RELINQUISHED BY: ②			DATE: _____ TIME: _____			RECEIVED BY: ③			DATE: _____ TIME: _____				
RELINQUISHED BY: ③			DATE: _____ TIME: _____			RECEIVED BY: ④			DATE: _____ TIME: _____				
METHOD OF SHIPMENT: <span style="float: right;">AIR BILL No. 813113 TP</span>													
White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy			SAMPLE TEAM:  			RECEIVED FOR LABORATORY BY:  DATE: 8/25/99 TIME: 1:00							

1001-00(SOURCE)GN-C0004

MC41122: Chain of Custody

Page 1 of 11

<b>CONESTOGA-ROVERS &amp; ASSOCIATES</b> 8615 W. Bryn Mawr Avenue Chicago, Illinois 60631 (773)380-9933 phone (773)380-6421 fax			SHIPPED TO (Laboratory Name): Aurora Laboratory			PROJECT NAME: Bior - Reservoir		
			REFERENCE NUMBER: 1103174					
CHAIN-OF-CUSTODY RECORD								
SAMPLER'S SIGNATURE: 			PRINTED NAME: Greg W. Hagen			PARAMETERS		
						REMARKS		
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS			
16	8/26/95	1043	5-082615-GW-16	Soil	1			
17		1051			1			
18		1107			1			
19		1110			1			
20		1113			1			
21		1117			1			
22		1135			1			
23		1145			1			
24		1151			1			
25		1204			1			
26		1316			1			
27		1315			1			
28		1319			1			
29		1324			1			
30		1343			1			
TOTAL NUMBER OF CONTAINERS					15			
RELINQUISHED BY: ① 			DATE: 8/26/95		RECEIVED BY: ②		DATE:	
			TIME: 1000				TIME:	
RELINQUISHED BY: ②			DATE:		RECEIVED BY: ③		DATE:	
			TIME:				TIME:	
RELINQUISHED BY: ③			DATE:		RECEIVED BY: ④		DATE:	
			TIME:				TIME:	
METHOD OF SHIPMENT: Box 2000 214000					AIR BILL No.			
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy					SAMPLE TEAM:  			
					RECEIVED FOR LABORATORY BY:  DATE: 8/31/95 TIME: 9P			

## 4.1





**CONESTOGA-ROVERS & ASSOCIATES**  
 6520 Corporate Drive  
 Indianapolis, Indiana 46278  
 (317) 291-7007 phone  
 (317) 326-2666 fax

SHIPPED TO (Laboratory Name): ACCUTEST LABORATORIES

REFERENCE NUMBER: 111032179

PROJECT NAME: MC41122

CHAIN-OF-CUSTODY RECORD

SAMPLER'S SIGNATURE: [Signature] PRINTED NAME: Gregory

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
-50 46	08-27-15	0852	S - 082715 - CW - 46	Soil	1	X	
-52 47		0856	- 47		1	X	
-53 48		0959	- 48		1	X	STANDARD
-54 49		0824	- 49		1	X	
-51 50		0808	- 50		1	X	TAT
TOTAL NUMBER OF CONTAINERS <u>5</u>							

RELINQUISHED BY: [Signature]

RELINQUISHED BY: [Signature]

RELINQUISHED BY: [Signature]

DATE: 8-28-15  
TIME: 1000

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

RECEIVED BY: [Signature]

RECEIVED BY: [Signature]

RECEIVED BY: [Signature]

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

METHOD OF SHIPMENT: FedEx Priority Overnight

TRACKING No. 81311578

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Goldenrod - Sampler Copy

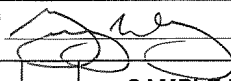
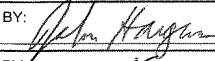
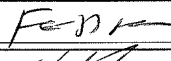
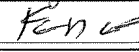
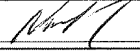
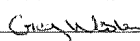
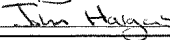
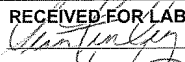
SAMPLE TEAM:  
[Signature]  
[Signature]

RECEIVED FOR LABORATORY BY: 2483

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

400001-00(SOURCE)GN-CO007

GHD, Inc. - Rosemont, Illinois

<b>CONESTOGA-ROVERS &amp; ASSOCIATES</b> 8615 W. Bryn Mawr Avenue Chicago, Illinois 60631- (773)380-9933 phone (773)380-6421 fax				SHIPPED TO (Laboratory Name): <b>ACCUTEST LABORATORIES</b>				REFERENCE NUMBER: <b>11103199</b>				PROJECT NAME: <b>MC 41122</b>											
				CHAIN-OF-CUSTODY RECORD				BEH2 - PESTICIDE - ILLINOIS															
SAMPLER'S SIGNATURE: 				PRINTED NAME: <b>Greg W. Hays</b>				No. OF CONTAINERS				PARAMETERS				REMARKS							
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.				SAMPLE MATRIX	No. OF CONTAINERS															
1	08.26.15	0849	S - 082615 - CW - 01				-1	Soil	1	X													
2		0904					-02		1	X													
3		0911					-03		1	X													
4		0922					-04		1	X									STANDARD				
5		0926					-05		1	X													
6		0940					-06		1	X									TAT				
7		0958					-07		1	X													
8		1007					-08		1	X													
9		1008					-09		1	X													
10		1015					-10		1	X													
11		1020					-11		1	X													
12		1023					-12		1	X													
13		1027					-13		1	X													
14		1032					-14		1	X													
15		1039					-15		1	X									13D				
TOTAL NUMBER OF CONTAINERS									15														
RELINQUISHED BY: ① 				DATE: 8-28-15 TIME: 1000				RECEIVED BY: ② 				DATE: TIME:											
RELINQUISHED BY: ② 				DATE: TIME:				RECEIVED BY: ③ 				DATE: 8/29/15 TIME: 10:30											
RELINQUISHED BY: ③				DATE: TIME:				RECEIVED BY: ④				DATE: TIME:											
METHOD OF SHIPMENT: <b>FEDER PRIORITY OVERNIGHT</b>										AIR BILL No. <b>0-8, 1-3 C</b>													
White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy				SAMPLE TEAM:  				RECEIVED FOR LABORATORY BY:  DATE: 8/28/15 TIME: 10:42				<b>CHICAGO SC</b> 005600											

1001-00(SOURCE)GN-CO004

MC41122: Chain of Custody

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GHD, inc. - Rosemont, Illinois

**CONESTOGA-ROVERS & ASSOCIATES**

8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631  
(773)380-9933 phone  
(773)380-6421 fax

SHIPPED TO  
(Laboratory Name):

Accutest Laboratories

MC41122

REFERENCE NUMBER:

PROJECT NAME:

## CHAIN-OF-CUSTODY RECORD

11103179

Bentz - Peoria, Illinois

SAMPLER'S  
SIGNATURE:

PRINTED

NAME: Greg Wesely

## PARAMETERS

REMARKS

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.				SAMPLE MATRIX	No. CONT.											REMARKS	
16	082615	1043	S	-082615	-GW	-16	Seam	1	X											
17		1059				-17	-17	1	X											
18		1107				-18	-18	1	X										STANDARD	
19		1110				-19	-19	1	X											
20		1113				-20	-20	1	X										TAT	
21		1117				-21	-21	1	X											
22		1135				-22	-22	1	X											
23		1145				-23	-23	1	X											
24		1259				-24	-24	1	X											
25		1304				-25	-25	1	X											
26		1312				-26	-26	1	X											
27		1315				-27	-27	1	X											
28		1319				-28	-28	1	X											
29		1324				-29	-29	1	X											
30	✓	1343	✓	✓	✓	-30	-30	✓	X											
TOTAL NUMBER OF CONTAINERS									15											

RELINQUISHED BY:

①

John Hargens

DATE: 8-28-15

TIME: 1000

RECEIVED BY:

②

Feds

DATE:

TIME:

RELINQUISHED BY:

②

Feds

DATE:

TIME:

RECEIVED BY:

③

N/A

DATE: 8/29/15

TIME: 10:00

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT: FedEx Priority Overnight

AIR BILL No.

White -Fully Executed Copy  
Yellow -Receiving Laboratory Copy  
Pink -Shipper Copy  
Goldenrod -Sampler Copy

SAMPLE TEAM:

Greg Wesely

John Hargens

RECEIVED FOR LABORATORY BY:

John Hargens

CHICAGO SC

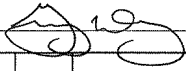
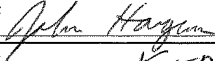

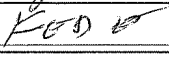
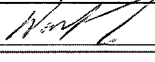
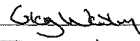
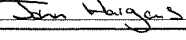

DATE: 8/29/15 TIME: 10:45

005599

1001-00(SOURCE)GN-CO004

MC41122: Chain of Custody

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<b>CONESTOGA-ROVERS &amp; ASSOCIATES</b> 8645 W. Bryn Mawr Avenue Chicago, Illinois 60631 (773)380-9933 phone (773)380-6421 fax				SHIPPED TO (Laboratory Name): Accutest Laboratories			
CHAIN-OF-CUSTODY RECORD				REFERENCE NUMBER: 11103129		PROJECT NAME: Rose - Rosemont, Illinois	
SAMPLER'S SIGNATURE: 		PRINTED NAME: Greg Wolsky		No. OF CONTAINERS		PARAMETERS	
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX		REMARKS	
31	082615	1349	S - 082615 - GW - 31	-31 Soil	1	X	
32		1352		-32	1	X	
33		1408		-33	1	X	STANDARD
34		1414		-34	1	X	
35		1421		-35	1	X	TAT
36		1425		-36	1	X	
37		1432		-37	1	X	
38	08281435			-38	1	X	
39		1441		-39	1	X	
40		1448		-40	1	X	
41		1508		-41	1	X	
42		1511		-42	1	X	
43	0827150936		S - 082715 - GW - 43	-43	1	X	
44		0944		-44	1	X	
45		0748		-45	1	X	
TOTAL NUMBER OF CONTAINERS					15		
RELINQUISHED BY: ① 				DATE: 8-25-15		RECEIVED BY: ② 	
RELINQUISHED BY: ② 				DATE: 10:10		RECEIVED BY: ③ 	
RELINQUISHED BY: ③				DATE:		RECEIVED BY: ④	
METHOD OF SHIPMENT: <u>FedEx Priority Overnight</u>				AIR BILL No. <u>11103122</u>			
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy				SAMPLE TEAM:  		RECEIVED FOR LABORATORY BY: <b>CHICAGO SC</b>  DATE: 8/29/15 TIME: 10:15 005601	

1001-00(SOURCE)GN-C0004


MC41122: Chain of Custody

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GHD Rosemont

MC41122

<b>GONESTOGA-ROVERS &amp; ASSOCIATES</b>  8615 W. Bryn Mawr Avenue Chicago, Illinois 60631 (773)380-9933 phone (773)380-6421 fax		SHIPPED TO (Laboratory Name): <i>Accutest</i>					
REFERENCE NUMBER: 11103179		PROJECT NAME: <i>Behn - Peoria, Illinois</i>					
CHAIN-OF-CUSTODY RECORD							
SAMPLER'S SIGNATURE: <i>[Signature]</i>		PRINTED NAME: <i>Gregory W. [unclear]</i>					
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
51	8-27-15	0914	5-082715-GW-51	-46 Soil	2	<i>TEPA</i> <i>TEPA VOCs</i> <i>TEPA SVOCs</i> <i>TEPA Metals</i> <i>pH</i> <i>Fluoride</i> <i>Reactive Carbon</i> <i>Alkalinity</i> <i>Bulk Density</i> <i>Test Results</i>	
52		0923	52	-49	2		
53		0932	53	-48	2		<i>STANDARD</i>
54		0944	54	-49	2		<i>TAT</i>
TOTAL NUMBER OF CONTAINERS							
RELINQUISHED BY: ① <i>John Hargan</i>		DATE: 8-28-15		RECEIVED BY: ② <i>Ford</i>		DATE:	
RELINQUISHED BY: ② <i>Ford</i>		DATE:		RECEIVED BY: ③ <i>Walt</i>		DATE: 8/29/15	
RELINQUISHED BY: ③		DATE:		RECEIVED BY: ④		DATE:	
METHOD OF SHIPMENT:				AIR BILL No.			
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy		SAMPLE TEAM:		RECEIVED FOR LABORATORY BY: <i>[Signature]</i> CHICAGO SC DATE: 8/28/15 TIME: 10:15 005909			

1001-00(SOURCE)GN-CO004

MC41122: Chain of Custody

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# Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC41122 Client: CRA Immediate Client Services Action Required: No  
 Date / Time Received: 8/29/2015 10:00:00 AM Delivery Method:  
 Project: BEHR PEORIA No. Coolers: 2 Airbill #'s:

## Cooler Security

Y or N

Y or N

- |                           |                                     |                          |                       |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

## Cooler Temperature

Y or N

- |                              |                                     |                          |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared Gun                        |                          |
| 3. Cooler media:             | Ice (Bag)                           |                          |

## Quality Control Preservation

Y

N

N/A

- |                                 |                                     |                          |                                     |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/>            | <input type="checkbox"/> |                                     |
| 2. Trip Blank listed on COC:    | <input type="checkbox"/>            | <input type="checkbox"/> |                                     |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 4. VOCs headspace free:         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

-we received five 4-oz jars not listed on the coc.  
 -50 ID on bottle is "S082715-GW-46  
 -51 ID on bottle is "S082715-GW-47  
 -52 ID on bottle is "S082715-GW-48  
 -53 ID on bottle is "S082715-GW-49  
 -54 ID on bottle is "S082715-GW-50

## Sample Integrity - Documentation

Y or N

- |  |                                     |                          |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

## Sample Integrity - Condition

Y or N

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample rec'd within HT:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample:          | Intact                              |                          |

## Sample Integrity - Instructions

Y

N

N/A

- |   |                                     |                          |                                     |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Analysis requested is clear:           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 2. Bottles received for unspecified tests | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 3. Sufficient volume rec'd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 4. Compositing instructions clear:        | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

## Sample Receipt Summary - Problem Resolution

**Accutest Job Number:** MC41122

**CSR:** Jeremy Vienneau

**Response Date:** 8/31/2015

**Response:** The client confirmed that a COC was left out of the cooler. See email in file.

4.1

4

**MC41122: Chain of Custody**  
**Page 11 of 11**

## GC/MS Volatiles

5

### QC Data Summaries

---

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

## Method Blank Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2490-MB	H74852.D	1	09/12/15	KP	n/a	n/a	MSH2490

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	117% 74-135%
2037-26-5	Toluene-D8	99% 83-116%
460-00-4	4-Bromofluorobenzene	109% 76-124%

## Leachate Blank Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GP19518-LB1	H74853.D	10	09/12/15	KP	09/01/15	GP19518	MSH2490

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.7	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	30	ug/l	
56-23-5	Carbon tetrachloride	ND	10	3.4	ug/l	
108-90-7	Chlorobenzene	ND	10	2.4	ug/l	
67-66-3	Chloroform	ND	10	4.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	3.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.1	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	2.8	ug/l	
127-18-4	Tetrachloroethene	ND	10	2.1	ug/l	
79-01-6	Trichloroethene	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	10	4.5	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	126% 74-135%
2037-26-5	Toluene-D8	115% 83-116%
460-00-4	4-Bromofluorobenzene	108% 76-124%

# Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2490-BS	H74849.D	1	09/12/15	KP	n/a	n/a	MSH2490
MSH2490-BSD	H74850.D	1	09/12/15	KP	n/a	n/a	MSH2490

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	50.2	100	50.5	101	1	71-125/25
78-93-3	2-Butanone (MEK)	50	62.2	124	62.2	124	0	22-193/25
56-23-5	Carbon tetrachloride	50	66.4	133	65.5	131	1	44-168/25
108-90-7	Chlorobenzene	50	41.8	84	42.4	85	1	71-119/25
67-66-3	Chloroform	50	59.0	118	57.1	114	3	64-133/25
106-46-7	1,4-Dichlorobenzene	50	46.0	92	47.4	95	3	71-117/25
107-06-2	1,2-Dichloroethane	50	61.3	123	61.0	122	0	48-151/25
75-35-4	1,1-Dichloroethene	50	51.4	103	51.7	103	1	49-151/25
127-18-4	Tetrachloroethene	50	43.8	88	45.5	91	4	69-125/25
79-01-6	Trichloroethene	50	57.0	114	57.2	114	0	72-121/25
75-01-4	Vinyl chloride	50	58.4	117	55.1	110	6	49-159/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	109%	104%	74-135%
2037-26-5	Toluene-D8	108%	106%	83-116%
460-00-4	4-Bromofluorobenzene	105%	107%	76-124%

\* = Outside of Control Limits.

## Leachate Spike Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GP19518-LS1	H74870.D	100	09/12/15	KP	09/01/15	GP19518	MSH2490
MC41122-46	H74857.D	100	09/12/15	KP	09/01/15	GP19518	MSH2490

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	MC41122-46 Spike		LS	LS	Limits
		ug/l	Q ug/l	ug/l	%	
71-43-2	Benzene	ND	5000	4850	97	63-125
78-93-3	2-Butanone (MEK)	ND	5000	5480	110	10-158
56-23-5	Carbon tetrachloride	ND	5000	6380	128	48-153
108-90-7	Chlorobenzene	ND	5000	3800	76	68-117
67-66-3	Chloroform	ND	5000	5670	113	57-137
106-46-7	1,4-Dichlorobenzene	ND	5000	4250	85	66-114
107-06-2	1,2-Dichloroethane	ND	5000	5990	120	48-146
75-35-4	1,1-Dichloroethene	ND	5000	5100	102	47-150
127-18-4	Tetrachloroethene	ND	5000	3840	77	71-117
79-01-6	Trichloroethene	ND	5000	5080	102	67-121
75-01-4	Vinyl chloride	ND	5000	5790	116	49-151

CAS No.	Surrogate Recoveries	LS			MC41122-46 Limits
1868-53-7	Dibromofluoromethane	112%	127%		74-135%
2037-26-5	Toluene-D8	110%	113%		83-116%
460-00-4	4-Bromofluorobenzene	106%	104%		76-124%

\* = Outside of Control Limits.



## Volatile Surrogate Recovery Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

**Method:** SW846 8260C

**Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC41122-46	H74857.D	127	113	104
MC41122-47	H74858.D	127	112	104
MC41122-48	H74859.D	128	112	100
MC41122-49	H74860.D	135	107	100
GP19518-LB1	H74853.D	126	115	108
GP19518-LS1	H74870.D	112	110	106
MSH2490-BS	H74849.D	109	108	105
MSH2490-BSD	H74850.D	104	106	107
MSH2490-MB	H74852.D	117	99	109

### Surrogate Compounds

### Recovery Limits

**S1** = Dibromofluoromethane

74-135%

**S2** = Toluene-D8

83-116%

**S3** = 4-Bromofluorobenzene

76-124%

5.5.1

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## GC/MS Semi-volatiles

### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

## Method Blank Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44507-MB	X06950.D	1	09/08/15	MR	09/05/15	OP44507	MSX218

The QC reported here applies to the following samples:

Method: SW846 8270D

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	100	2.1	ug/l	
	3&4-Methylphenol	ND	100	4.7	ug/l	
87-86-5	Pentachlorophenol	ND	100	3.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	100	3.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	100	3.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	2.3	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	100	15	ug/l	
118-74-1	Hexachlorobenzene	ND	50	7.7	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	2.4	ug/l	
67-72-1	Hexachloroethane	ND	50	2.9	ug/l	
98-95-3	Nitrobenzene	ND	50	2.6	ug/l	
110-86-1	Pyridine	ND	100	13	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	47% 10-73%
4165-62-2	Phenol-d5	35% 10-58%
118-79-6	2,4,6-Tribromophenol	99% 15-125%
4165-60-0	Nitrobenzene-d5	90% 23-120%
321-60-8	2-Fluorobiphenyl	74% 31-102%
1718-51-0	Terphenyl-d14	94% 42-124%

## Blank Spike Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44507-BS	X06951.D	1	09/08/15	MR	09/05/15	OP44507	MSX218

The QC reported here applies to the following samples:

Method: SW846 8270D

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	410	82	20-112
	3&4-Methylphenol	1000	724	72	19-102
87-86-5	Pentachlorophenol	500	507	101	28-117
95-95-4	2,4,5-Trichlorophenol	500	534	107	56-112
88-06-2	2,4,6-Trichlorophenol	500	514	103	54-112
106-46-7	1,4-Dichlorobenzene	500	292	58	30-90
121-14-2	2,4-Dinitrotoluene	500	527	105	62-121
118-74-1	Hexachlorobenzene	500	479	96	49-128
87-68-3	Hexachlorobutadiene	500	355	71	22-96
67-72-1	Hexachloroethane	500	294	59	22-86
98-95-3	Nitrobenzene	500	469	94	50-117
110-86-1	Pyridine	500	179	36	10-86

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	49%	10-73%
4165-62-2	Phenol-d5	36%	10-58%
118-79-6	2,4,6-Tribromophenol	100%	15-125%
4165-60-0	Nitrobenzene-d5	99%	23-120%
321-60-8	2-Fluorobiphenyl	79%	31-102%
1718-51-0	Terphenyl-d14	92%	42-124%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44507-MS	X06952.D	1	09/08/15	MR	09/05/15	OP44507	MSX218
OP44507-MSD	X06953.D	1	09/08/15	MR	09/05/15	OP44507	MSX218
MC41185-1	X06954.D	1	09/08/15	MR	09/05/15	OP44507	MSX218

The QC reported here applies to the following samples:

Method: SW846 8270D

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	MC41185-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol	ND	500	400	80	500	385	77	4	30-130/20
	3&4-Methylphenol	ND	1000	734	73	1000	704	70	4	30-130/20
87-86-5	Pentachlorophenol	ND	500	489	98	500	497	99	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND	500	520	104	500	511	102	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND	500	489	98	500	489	98	0	30-130/20
106-46-7	1,4-Dichlorobenzene	ND	500	239	48	500	287	57	18	40-140/20
121-14-2	2,4-Dinitrotoluene	ND	500	504	101	500	503	101	0	40-140/20
118-74-1	Hexachlorobenzene	ND	500	459	92	500	466	93	2	40-140/20
87-68-3	Hexachlorobutadiene	ND	500	285	57	500	347	69	20	40-140/20
67-72-1	Hexachloroethane	ND	500	231	46	500	282	56	20	40-140/20
98-95-3	Nitrobenzene	ND	500	447	89	500	444	89	1	40-140/20
110-86-1	Pyridine	ND	500	168	34	500	213	43	24* a	10-86/20

CAS No.	Surrogate Recoveries	MS	MSD	MC41185-1	Limits
367-12-4	2-Fluorophenol	46%	48%	54%	10-73%
4165-62-2	Phenol-d5	35%	35%	38%	10-58%
118-79-6	2,4,6-Tribromophenol	95%	97%	100%	15-125%
4165-60-0	Nitrobenzene-d5	94%	95%	96%	23-120%
321-60-8	2-Fluorobiphenyl	74%	77%	69%	31-102%
1718-51-0	Terphenyl-d14	92%	94%	98%	42-124%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.

\* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC41122  
Account: CRACT GHD Services Inc.  
Project: Behr, Peoria, IL

Method: SW846 8270D	Matrix: LEACHATE
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC41122-46	X06955.D	41	32	97	79	67	100
MC41122-47	X06956.D	52	38	95	92	64	93
MC41122-48	X06957.D	40	31	88	75	63	91
MC41122-49	X06958.D	51	37	93	90	74	93
OP44507-BS	X06951.D	49	36	100	99	79	92
OP44507-MB	X06950.D	47	35	99	90	74	94
OP44507-MS	X06952.D	46	35	95	94	74	92
OP44507-MSD	X06953.D	48	35	97	95	77	94

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-73%
S2 = Phenol-d5	10-58%
S3 = 2,4,6-Tribromophenol	15-125%
S4 = Nitrobenzene-d5	23-120%
S5 = 2-Fluorobiphenyl	31-102%
S6 = Terphenyl-d14	42-124%

## GC Semi-volatiles

### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

## Method Blank Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44496-MB	YZ94964.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825

The QC reported here applies to the following samples:

Method: SW846 8151

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	10	4.6	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	10	1.3	ug/l	

CAS No.	Surrogate Recoveries	Limits
19719-28-9	2,4-DCAA	70% 30-150%
19719-28-9	2,4-DCAA	66% 30-150%



## Method Blank Summary

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**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44497-MB	BE47930.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406

The QC reported here applies to the following samples:

Method: SW846 8081B

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Result	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	0.50	0.11	ug/l	
12789-03-6	Chlordane	ND	5.0	1.1	ug/l	
72-20-8	Endrin	ND	0.50	0.18	ug/l	
76-44-8	Heptachlor	ND	0.50	0.14	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.50	0.097	ug/l	
72-43-5	Methoxychlor	ND	0.50	0.17	ug/l	
8001-35-2	Toxaphene	ND	25	1.3	ug/l	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	76% 30-150%
877-09-8	Tetrachloro-m-xylene	70% 30-150%
2051-24-3	Decachlorobiphenyl	85% 30-150%
2051-24-3	Decachlorobiphenyl	88% 30-150%

## Method Blank Summary

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**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44491-MB	BK51433.D	1	09/14/15	NK	09/04/15	OP44491	GBK1609

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-35, MC41122-36, MC41122-37, MC41122-38, MC41122-40, MC41122-41, MC41122-42, MC41122-43, MC41122-44, MC41122-45, MC41122-50, MC41122-51, MC41122-52, MC41122-53, MC41122-54

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	33	8.2	ug/kg	
11141-16-5	Aroclor 1232	ND	33	9.6	ug/kg	
53469-21-9	Aroclor 1242	ND	33	10	ug/kg	
12672-29-6	Aroclor 1248	ND	33	11	ug/kg	
11097-69-1	Aroclor 1254	ND	33	8.5	ug/kg	
11096-82-5	Aroclor 1260	ND	33	4.8	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	74% 35-136%
877-09-8	Tetrachloro-m-xylene	75% 35-136%
2051-24-3	Decachlorobiphenyl	113% 24-171%
2051-24-3	Decachlorobiphenyl	116% 24-171%

## Method Blank Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44490-MB	BK51428.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-19, MC41122-20, MC41122-21, MC41122-22, MC41122-23, MC41122-24, MC41122-25, MC41122-26, MC41122-27, MC41122-28, MC41122-29, MC41122-30, MC41122-31, MC41122-32, MC41122-33, MC41122-34

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	9.4	ug/kg	
11104-28-2	Aroclor 1221	ND	33	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	33	9.8	ug/kg	
53469-21-9	Aroclor 1242	ND	33	10	ug/kg	
12672-29-6	Aroclor 1248	ND	33	12	ug/kg	
11097-69-1	Aroclor 1254	ND	33	8.7	ug/kg	
11096-82-5	Aroclor 1260	ND	33	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	59% 35-136%
877-09-8	Tetrachloro-m-xylene	60% 35-136%
2051-24-3	Decachlorobiphenyl	98% 24-171%
2051-24-3	Decachlorobiphenyl	95% 24-171%

## Method Blank Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44590-MB	BK51426.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-1, MC41122-2, MC41122-3, MC41122-4, MC41122-5, MC41122-6, MC41122-7, MC41122-8, MC41122-9, MC41122-10, MC41122-11, MC41122-12, MC41122-13, MC41122-15, MC41122-16, MC41122-17, MC41122-18

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	32	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	32	7.9	ug/kg	
11141-16-5	Aroclor 1232	ND	32	9.3	ug/kg	
53469-21-9	Aroclor 1242	ND	32	9.8	ug/kg	
12672-29-6	Aroclor 1248	ND	32	11	ug/kg	
11097-69-1	Aroclor 1254	ND	32	8.2	ug/kg	
11096-82-5	Aroclor 1260	ND	32	4.6	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	94%	35-136%
877-09-8	Tetrachloro-m-xylene	94%	35-136%
2051-24-3	Decachlorobiphenyl	118%	24-171%
2051-24-3	Decachlorobiphenyl	106%	24-171%

## Method Blank Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44631-MB	BK51558.D	1	09/16/15	NK	09/15/15	OP44631	GBK1612

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-14, MC41122-39

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	33	8.2	ug/kg	
11141-16-5	Aroclor 1232	ND	33	9.6	ug/kg	
53469-21-9	Aroclor 1242	ND	33	10	ug/kg	
12672-29-6	Aroclor 1248	ND	33	11	ug/kg	
11097-69-1	Aroclor 1254	ND	33	8.5	ug/kg	
11096-82-5	Aroclor 1260	ND	33	4.8	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	95% 35-136%
877-09-8	Tetrachloro-m-xylene	100% 35-136%
2051-24-3	Decachlorobiphenyl	110% 24-171%
2051-24-3	Decachlorobiphenyl	113% 24-171%

# Leachate Blank Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44496-LB	YZ94964A.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825

The QC reported here applies to the following samples:

Method: SW846 8151

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	10	4.6	ug/l	
93-72-1	2,4,5-TP (Silvex)	ND	10	1.3	ug/l	

CAS No.	Surrogate Recoveries	Limits
19719-28-9	2,4-DCAA	70% 30-150%
19719-28-9	2,4-DCAA	66% 30-150%

7.2.1

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# Leachate Blank Summary

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**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44497-LB	BE47930A.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406

The QC reported here applies to the following samples:

Method: SW846 8081B

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Result	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	0.50	0.11	ug/l	
12789-03-6	Chlordane	ND	5.0	1.1	ug/l	
72-20-8	Endrin	ND	0.50	0.18	ug/l	
76-44-8	Heptachlor	ND	0.50	0.14	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.50	0.097	ug/l	
72-43-5	Methoxychlor	ND	0.50	0.17	ug/l	
8001-35-2	Toxaphene	ND	25	1.3	ug/l	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	76% 30-150%
877-09-8	Tetrachloro-m-xylene	70% 30-150%
2051-24-3	Decachlorobiphenyl	85% 30-150%
2051-24-3	Decachlorobiphenyl	88% 30-150%

## Blank Spike Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44496-BS	YZ94965.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825

The QC reported here applies to the following samples:

Method: SW846 8151

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
94-75-7	2,4-D	40	20.2	51	40-140
93-72-1	2,4,5-TP (Silvex)	40	20.5	51	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
19719-28-9	2,4-DCAA	77%	30-150%
19719-28-9	2,4-DCAA	71%	30-150%

\* = Outside of Control Limits.



## Blank Spike Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44497-BS	BE47931.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406

The QC reported here applies to the following samples:

Method: SW846 8081B

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
58-89-9	gamma-BHC (Lindane)	2	1.6	80	40-140
72-20-8	Endrin	2	2.1	105	40-140
76-44-8	Heptachlor	2	1.8	90	40-140
1024-57-3	Heptachlor epoxide	2	1.9	95	40-140
72-43-5	Methoxychlor	2	2.0	100	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	77%	30-150%
877-09-8	Tetrachloro-m-xylene	72%	30-150%
2051-24-3	Decachlorobiphenyl	79%	30-150%
2051-24-3	Decachlorobiphenyl	81%	30-150%

\* = Outside of Control Limits.

## Blank Spike Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44491-BS	BK51434.D	1	09/14/15	NK	09/04/15	OP44491	GBK1609

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-35, MC41122-36, MC41122-37, MC41122-38, MC41122-40, MC41122-41, MC41122-42, MC41122-43, MC41122-44, MC41122-45, MC41122-50, MC41122-51, MC41122-52, MC41122-53, MC41122-54

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	253	245	97	47-143
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	253	267	106	44-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	95%	35-136%
877-09-8	Tetrachloro-m-xylene	96%	35-136%
2051-24-3	Decachlorobiphenyl	116%	24-171%
2051-24-3	Decachlorobiphenyl	119%	24-171%

\* = Outside of Control Limits.

## Blank Spike Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44490-BS	BK51429.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-19, MC41122-20, MC41122-21, MC41122-22, MC41122-23, MC41122-24, MC41122-25, MC41122-26, MC41122-27, MC41122-28, MC41122-29, MC41122-30, MC41122-31, MC41122-32, MC41122-33, MC41122-34

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	257	233	91	47-143
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	257	238	93	44-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	84%	35-136%
877-09-8	Tetrachloro-m-xylene	89%	35-136%
2051-24-3	Decachlorobiphenyl	99%	24-171%
2051-24-3	Decachlorobiphenyl	98%	24-171%

\* = Outside of Control Limits.

## Blank Spike Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44590-BS	BK51427.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-1, MC41122-2, MC41122-3, MC41122-4, MC41122-5, MC41122-6, MC41122-7, MC41122-8, MC41122-9, MC41122-10, MC41122-11, MC41122-12, MC41122-13, MC41122-15, MC41122-16, MC41122-17, MC41122-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	251	254	101	47-143
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	251	277	110	44-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	100%	35-136%
877-09-8	Tetrachloro-m-xylene	101%	35-136%
2051-24-3	Decachlorobiphenyl	125%	24-171%
2051-24-3	Decachlorobiphenyl	117%	24-171%

\* = Outside of Control Limits.

## Blank Spike Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44631-BS	BK51559.D	1	09/16/15	NK	09/15/15	OP44631	GBK1612

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-14, MC41122-39

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	255	271	106	47-143
11104-28-2	Aroclor 1221		ND		40-140
11141-16-5	Aroclor 1232		ND		40-140
53469-21-9	Aroclor 1242		ND		40-140
12672-29-6	Aroclor 1248		ND		40-140
11097-69-1	Aroclor 1254		ND		40-140
11096-82-5	Aroclor 1260	255	295	116	44-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	97%	35-136%
877-09-8	Tetrachloro-m-xylene	99%	35-136%
2051-24-3	Decachlorobiphenyl	113%	24-171%
2051-24-3	Decachlorobiphenyl	117%	24-171%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44496-MS	YZ94966.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825
OP44496-MSD	YZ94967.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825
MC41122-46	YZ94968.D	1	09/11/15	NK	09/04/15	OP44496	GYZ7825

The QC reported here applies to the following samples:

Method: SW846 8151

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	MC41122-46 Spike ug/l	Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
94-75-7	2,4-D	ND	40	19.9	50	40	14.6	37	31* a	30-150/30
93-72-1	2,4,5-TP (Silvex)	ND	40	20.4	51	40	14.5	36	34* a	30-150/30

CAS No.	Surrogate Recoveries	MS	MSD	MC41122-46 Limits
19719-28-9	2,4-DCAA	73%	57%	41% 30-150%
19719-28-9	2,4-DCAA	68%	49%	52% 30-150%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44497-MS	BE47932.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406
OP44497-MSD	BE47933.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406
MC41122-47	BE47935.D	1	09/12/15	NK	09/04/15	OP44497	GBE2406

The QC reported here applies to the following samples:

Method: SW846 8081B

MC41122-46, MC41122-47, MC41122-48, MC41122-49

CAS No.	Compound	MC41122-47 Spike ug/l	Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
58-89-9	gamma-BHC (Lindane)	ND	2	2.0	100	2	2.0	100	0	30-150/30
72-20-8	Endrin	ND	2	2.4	120	2	2.3	115	4	30-150/30
76-44-8	Heptachlor	ND	2	1.9	95	2	2.0	100	5	30-150/30
1024-57-3	Heptachlor epoxide	ND	2	2.2	110	2	2.1	105	5	30-150/30
72-43-5	Methoxychlor	ND	2	2.3	115	2	2.2	110	4	30-150/30

CAS No.	Surrogate Recoveries	MS	MSD	MC41122-47 Limits	
877-09-8	Tetrachloro-m-xylene	73%	78%	65%	30-150%
877-09-8	Tetrachloro-m-xylene	68%	72%	60%	30-150%
2051-24-3	Decachlorobiphenyl	90%	84%	91%	30-150%
2051-24-3	Decachlorobiphenyl	92%	86%	94%	30-150%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44491-MS	BK51498.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
OP44491-MSD	BK51499.D	1	09/15/15	NK	09/04/15	OP44491	GBK1609
MC41122-35	BK51444.D	1	09/14/15	NK	09/09/15	OP44491	GBK1609
MC41122-35	BB64527.D	50	09/14/15	NK	09/09/15	OP44491	GBB3483

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-35, MC41122-36, MC41122-37, MC41122-38, MC41122-40, MC41122-41, MC41122-42, MC41122-43, MC41122-44, MC41122-45, MC41122-50, MC41122-51, MC41122-52, MC41122-53, MC41122-54

CAS No.	Compound	MC41122-35 Spike ug/kg	Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	291	3470	1192* a	298	3280	1100* a	6	25-162/50
11104-28-2	Aroclor 1221	ND		ND			ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	40-140/50
12672-29-6	Aroclor 1248	6120 b		8460			7840		8	40-140/50
11097-69-1	Aroclor 1254	10800 b		11000			10700		3	40-140/50
11096-82-5	Aroclor 1260	4310 b	291	5280	333* c	298	5280	325* c	0	18-177/50

CAS No.	Surrogate Recoveries	MS	MSD	MC41122-35	MC41122-35 Limits
877-09-8	Tetrachloro-m-xylene	95%	95%	96%	0% * d 35-136%
877-09-8	Tetrachloro-m-xylene	91%	92%	93%	0% * d 35-136%
2051-24-3	Decachlorobiphenyl	131%	115%	131%	0% * d 24-171%
2051-24-3	Decachlorobiphenyl	125%	134%	88%	0% * d 24-171%

(a) Outside criteria due to presence of other Aroclors.

(b) Result is from Run #2.

(c) Outside control limits due to high level in sample relative to spike amount.

(d) Outside control limits due to dilution.

\* = Outside of Control Limits.



# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44490-MS	BK51493.D	1	09/15/15	NK	09/09/15	OP44490	GBK1609
OP44490-MSD	BK51494.D	1	09/15/15	NK	09/09/15	OP44490	GBK1609
MC41122-19	BK51456.D	1	09/14/15	NK	09/09/15	OP44490	GBK1609
MC41122-19	BK51501.D	50	09/15/15	NK	09/09/15	OP44490	GBK1610

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-19, MC41122-20, MC41122-21, MC41122-22, MC41122-23, MC41122-24, MC41122-25, MC41122-26, MC41122-27, MC41122-28, MC41122-29, MC41122-30, MC41122-31, MC41122-32, MC41122-33, MC41122-34

CAS No.	Compound	MC41122-19 Spike ug/kg	Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	281	4480	1592* <sup>a</sup>	287	3570	1243* <sup>a</sup>	23	25-162/50
11104-28-2	Aroclor 1221	ND		ND			ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	40-140/50
12672-29-6	Aroclor 1248	9480 <sup>b</sup>		10600			7480		35	40-140/50
11097-69-1	Aroclor 1254	13500 <sup>b</sup>		11900			10900		9	40-140/50
11096-82-5	Aroclor 1260	3140 <sup>b</sup>	281	6170	1077* <sup>c</sup>	287	5660	877* <sup>c</sup>	9	18-177/50

CAS No.	Surrogate Recoveries	MS	MSD	MC41122-19	MC41122-19	Limits
877-09-8	Tetrachloro-m-xylene	109%	108%	115%	0%* <sup>d</sup>	35-136%
877-09-8	Tetrachloro-m-xylene	102%	101%	107%	0%* <sup>d</sup>	35-136%
2051-24-3	Decachlorobiphenyl	147%	154%	145%	0%* <sup>d</sup>	24-171%
2051-24-3	Decachlorobiphenyl	154%	140%	158%	0%* <sup>d</sup>	24-171%

(a) Outside criteria due to presence of other Aroclors.

(b) Result is from Run #2.

(c) Outside control limits due to high level in sample relative to spike amount.

(d) Outside control limits due to dilution.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44590-MS	BK51491.D	1	09/15/15	NK	09/11/15	OP44590	GBK1609
OP44590-MSD	BK51492.D	1	09/15/15	NK	09/11/15	OP44590	GBK1609
MC41122-6	BK51440.D	1	09/14/15	NK	09/11/15	OP44590	GBK1609
MC41122-6	BB64513.D	20	09/14/15	NK	09/11/15	OP44590	GBB3483

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-1, MC41122-2, MC41122-3, MC41122-4, MC41122-5, MC41122-6, MC41122-7, MC41122-8, MC41122-9, MC41122-10, MC41122-11, MC41122-12, MC41122-13, MC41122-15, MC41122-16, MC41122-17, MC41122-18

CAS No.	Compound	MC41122-6 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	293	2060	704* a	298	2480	832* a	19	25-162/50
11104-28-2	Aroclor 1221	ND		ND			ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	40-140/50
12672-29-6	Aroclor 1248	5130 b		3920			4700		18	40-140/50
11097-69-1	Aroclor 1254	5740 b		5440			6110		12	40-140/50
11096-82-5	Aroclor 1260	1300 b	293	2860	533* c	298	3330	681* c	15	18-177/50

CAS No.	Surrogate Recoveries	MS	MSD	MC41122-6	MC41122-6	Limits
877-09-8	Tetrachloro-m-xylene	90%	87%	101%	0% * d	35-136%
877-09-8	Tetrachloro-m-xylene	91%	82%	97%	0% * d	35-136%
2051-24-3	Decachlorobiphenyl	156%	236% * e	145%	0% * d	24-171%
2051-24-3	Decachlorobiphenyl	152%	111%	145%	0% * d	24-171%

(a) Outside criteria due to presence of other Aroclors.

(b) Result is from Run #2.

(c) Outside control limits due to high level in sample relative to spike amount.

(d) Outside control limits due to dilution.

(e) Outside control limits due to possible matrix interference.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44631-MS	BK51562.D	1	09/16/15	NK	09/15/15	OP44631	GBK1612
OP44631-MSD	BK51563.D	1	09/16/15	NK	09/15/15	OP44631	GBK1612
MC41122-14	BK51560.D	1	09/16/15	NK	09/15/15	OP44631	GBK1612
MC41122-14	BK51564.D	100	09/16/15	NK	09/15/15	OP44631	GBK1612

The QC reported here applies to the following samples:

Method: SW846 8082A

MC41122-14, MC41122-39

CAS No.	Compound	MC41122-14 Spike ug/kg	Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	294	6640	2256* <sup>a</sup>	298	5920	1989* <sup>a</sup>	11	25-162/50
11104-28-2	Aroclor 1221	ND		ND			ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	40-140/50
12672-29-6	Aroclor 1248	16500 <sup>b</sup>		14800			13800		7	40-140/50
11097-69-1	Aroclor 1254	19800 <sup>b</sup>		13800			13300		4	40-140/50
11096-82-5	Aroclor 1260	3130 <sup>b</sup>	J 294	6370	999* <sup>c</sup>	298	6070	988* <sup>c</sup>	5	18-177/50

CAS No.	Surrogate Recoveries	MS	MSD	MC41122-14	MC41122-14 Limits
877-09-8	Tetrachloro-m-xylene	104%	84%	97%	0% * <sup>d</sup> 35-136%
877-09-8	Tetrachloro-m-xylene	97%	77%	89%	0% * <sup>d</sup> 35-136%
2051-24-3	Decachlorobiphenyl	131%	142%	120%	0% * <sup>d</sup> 24-171%
2051-24-3	Decachlorobiphenyl	128%	131%	116%	0% * <sup>d</sup> 24-171%

(a) Outside criteria due to presence of other Aroclors.

(b) Result is from Run #2.

(c) Outside control limits due to high level in sample relative to spike amount.

(d) Outside control limits due to dilution.

\* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC41122  
Account: CRACT GHD Services Inc.  
Project: Behr, Peoria, IL

Method: SW846 8151	Matrix: LEACHATE
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>
MC41122-46	YZ94968.D	41	52
MC41122-47	YZ94969.D	49	61
MC41122-48	YZ94970.D	49	62
MC41122-49	YZ94971.D	49	62
OP44496-BS	YZ94965.D	77	71
OP44496-LB	YZ94964A.D	70	66
OP44496-MB	YZ94964.D	70	66
OP44496-MS	YZ94966.D	73	68
OP44496-MSD	YZ94967.D	57	49

Surrogate Compounds	Recovery Limits
S1 = 2,4-DCAA	30-150%

- (a) Recovery from GC signal #2
- (b) Recovery from GC signal #1

7.5.1  
7

# Semivolatile Surrogate Recovery Summary

Page 1 of 1

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

<b>Method:</b> SW846 8081B	<b>Matrix:</b> LEACHATE
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>	S2 <sup>a</sup>	S2 <sup>b</sup>
MC41122-46	BE47934.D	78	72	94	96
MC41122-47	BE47935.D	65	60	91	94
MC41122-48	BE47936.D	63	58	87	90
MC41122-49	BE47937.D	83	77	89	93
OP44497-BS	BE47931.D	77	72	79	81
OP44497-LB	BE47930A.D	76	70	85	88
OP44497-MB	BE47930.D	76	70	85	88
OP44497-MS	BE47932.D	73	68	90	92
OP44497-MSD	BE47933.D	78	72	84	86

Surrogate Compounds	Recovery Limits
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S1 = Tetrachloro-m-xylene	30-150%
S2 = Decachlorobiphenyl	30-150%

(a) Recovery from GC signal #1  
(b) Recovery from GC signal #2

7.5.2

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# Semivolatile Surrogate Recovery Summary

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**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

**Method:** SW846 8082A

**Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>	S2 <sup>a</sup>	S2 <sup>b</sup>
MC41122-1	BB64508.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-1	BK51435.D	92	90	135	123
MC41122-1	BK51338.D	98	97	122	118
MC41122-2	BB64509.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-2	BK51436.D	95	89	122	119
MC41122-2	BK51339.D	103	86	127	133
MC41122-3	BK51437.D	109	98	136	129
MC41122-3	BB64510.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-3	BK51340.D	52	54	65	64
MC41122-4	BK51438.D	99	93	127	146
MC41122-4	BB64511.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-4	BK51341.D	97	98	119	119
MC41122-5	BK51439.D	99	91	127	138
MC41122-5	BB64512.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-5	BK51342.D	99	98	120	132
MC41122-6	BB64513.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-6	BK51440.D	101	97	145	145
MC41122-6	BK51343.D	35	37	52	50
MC41122-7	BB64514.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-7	BK51441.D	98	94	132	120
MC41122-7	BK51344.D	98	96	118	124
MC41122-8	BK51443.D	100	99	123	142
MC41122-8	BB64515.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-8	BK51345.D	90	84	118	124
MC41122-9	BK51445.D	82	87	131	95
MC41122-9	BB64516.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-9	BK51347.D	95	95	116	111
MC41122-10	BB64517.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-10	BK51446.D	106	103	149	142
MC41122-10	BK51348.D	95	89	130	121
MC41122-11	BB64519.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-11	BK51447.D	106	102	117	120
MC41122-11	BK51349.D	100	97	103	105
MC41122-12	BK51448.D	107	106	117	110
MC41122-12	BB64520.D	108	111	139	167
MC41122-12	BK51350.D	96	94	104	104
MC41122-13	BK51449.D	95	91	134	137
MC41122-13	BB64521.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-13	BK51351.D	102	91	143	146
MC41122-14	BK51560.D	97	89	120	116

7.5.3

7

# Semivolatile Surrogate Recovery Summary

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

**Method:** SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>	S2 <sup>a</sup>	S2 <sup>b</sup>
MC41122-14	BK51564.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-14	BK51352.D	98	97	110	101
MC41122-15	BB64523.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-15	BK51451.D	99	98	138	125
MC41122-15	BK51353.D	102	95	132	120
MC41122-16	BB64524.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-16	BK51452.D	105	96	149	144
MC41122-16	BK51354.D	101	101	136	128
MC41122-17	BK51454.D	80	81	109	107
MC41122-17	BB64525.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-17	BK51355.D	98	92	149	128
MC41122-18	BK51455.D	45	46	70	69
MC41122-18	BB64526.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-18	BK51356.D	103	109	139	120
MC41122-19	BK51501.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-19	BK51456.D	115	107	145	158
MC41122-20	BK51502.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-20	BK51457.D	97	90	128	100
MC41122-21	BK51503.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-21	BK51458.D	109	101	151	165
MC41122-22	BK51504.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-22	BK51459.D	79	84	128	128
MC41122-23	BK51505.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-23	BK51460.D	117	114	134	137
MC41122-24	BK51506.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-24	BK51461.D	108	109	144	137
MC41122-25	BK51507.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-25	BK51462.D	69	59	124	119
MC41122-26	BK51508.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-26	BK51463.D	109	103	156	143
MC41122-27	BK51509.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-27	BK51465.D	101	95	144	134
MC41122-28	BK51510.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-28	BK51466.D	100	97	133	140
MC41122-29	BK51512.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-29	BK51467.D	105	108	139	134
MC41122-30	BK51513.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-30	BK51468.D	103	94	129	122
MC41122-31	BK51514.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-31	BK51469.D	93	101	147	140

# Semivolatile Surrogate Recovery Summary

Page 3 of 4

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

<b>Method:</b> SW846 8082A	<b>Matrix:</b> SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>	S2 <sup>a</sup>	S2 <sup>b</sup>
MC41122-32	BK51515.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-32	BK51470.D	117	113	161	135
MC41122-33	BK51516.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-33	BK51471.D	108	101	151	139
MC41122-34	BK51517.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-34	BK51472.D	107	100	153	136
MC41122-35	BB64527.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-35	BK51444.D	96	93	131	88
MC41122-36	BB64530.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-36	BK51473.D	96	91	118	121
MC41122-37	BB64531.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-37	BK51474.D	103	100	110	149
MC41122-38	BB64532.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-38	BK51476.D	96	95	120	110
MC41122-39	BK51561.D	96	94	113	106
MC41122-39	BK51565.D	100	97	129	139
MC41122-39	BK51477.D	14* <sup>d</sup>	13* <sup>d</sup>	20* <sup>d</sup>	21* <sup>d</sup>
MC41122-40	BB64534.D	68	63	107	127
MC41122-40	BK51478.D	68	69	88	89
MC41122-41	BB64535.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-41	BK51479.D	89	86	115	133
MC41122-42	BB64536.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-42	BK51480.D	95	94	115	151
MC41122-43	BB64537.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-43	BK51481.D	92	93	128	121
MC41122-44	BB64538.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-44	BK51482.D	62	59	82	92
MC41122-45	BB64539.D	56	60	83	93
MC41122-45	BK51483.D	63	64	70	69
MC41122-50	BK51518.D	30* <sup>e</sup>	24* <sup>e</sup>	41	48
MC41122-50	BK51484.D	23* <sup>e</sup>	24* <sup>e</sup>	34	34
MC41122-51	BK51519.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-51	BK51485.D	94	93	138	136
MC41122-52	BK51520.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-52	BK51487.D	83	81	122	122
MC41122-53	BK51521.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-53	BK51488.D	98	96	131	138
MC41122-54	BK51523.D	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>	0* <sup>c</sup>
MC41122-54	BK51489.D	91	94	110	130
OP44490-BS	BK51429.D	84	89	99	98

7.5.3

7



## Semivolatile Surrogate Recovery Summary

Page 4 of 4

**Job Number:** MC41122  
**Account:** CRACT GHD Services Inc.  
**Project:** Behr, Peoria, IL

<b>Method:</b> SW846 8082A	<b>Matrix:</b> SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 <sup>a</sup>	S1 <sup>b</sup>	S2 <sup>a</sup>	S2 <sup>b</sup>
OP44490-MB	BK51428.D	59	60	98	95
OP44490-MS	BK51493.D	109	102	147	154
OP44490-MSD	BK51494.D	108	101	154	140
OP44491-BS	BK51434.D	95	96	116	119
OP44491-MB	BK51433.D	74	75	113	116
OP44491-MS	BK51498.D	95	91	131	125
OP44491-MSD	BK51499.D	95	92	115	134
OP44590-BS	BK51427.D	100	101	125	117
OP44590-MB	BK51426.D	94	94	118	106
OP44590-MS	BK51491.D	90	91	156	152
OP44590-MSD	BK51492.D	87	82	236* <sup>d</sup>	111
OP44631-BS	BK51559.D	97	99	113	117
OP44631-MB	BK51558.D	95	100	110	113
OP44631-MS	BK51562.D	104	97	131	128
OP44631-MSD	BK51563.D	84	77	142	131

### Surrogate Compounds

### Recovery Limits

S1 = Tetrachloro-m-xylene  
S2 = Decachlorobiphenyl

35-136%  
24-171%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2
- (c) Outside control limits due to dilution.
- (d) Outside control limits due to possible matrix interference.
- (e) Outside control limits due to matrix interference. Confirmed by reanalysis.

## Metals Analysis

### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

QC Batch ID: MP25080  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 09/03/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.20	.0083	.028		
Antimony	0.0060	.0012	.002		
Arsenic	0.010	.0013	.0017	-0.00040	<0.010
Barium	0.50	.00021	.001	0.00020	<0.50
Beryllium	0.0040	.0001	.00025		
Bismuth	0.050	.00089	.0021		
Boron	0.10	.001	.0011		
Cadmium	0.0040	.00026	.00043	0.00010	<0.0040
Calcium	5.0	.0049	.015		
Chromium	0.010	.00029	.00048	-0.00010	<0.010
Cobalt	0.050	.00024	.00028		
Copper	0.025	.00058	.0024		
Gold	0.050	.00091	.0015		
Iron	0.10	.013	.017		
Lead	0.010	.001	.0017	-0.00010	<0.010
Lithium	0.50	.0008	.0025		
Magnesium	5.0	.023	.054		
Manganese	0.015	.00011	.0014		
Molybdenum	0.10	.00021	.0036		
Nickel	0.040	.00024	.0005		
Palladium	0.050	.0012	.0026		
Platinum	0.050	.0053	.0054		
Potassium	5.0	.03	.049		
Selenium	0.025	.0023	.002	0.00030	<0.025
Silicon	0.10	.0011	.03		
Silver	0.0050	.00043	.001	-0.00020	<0.0050
Sodium	5.0	.008	.077		
Sulfur	0.050	.0017	.0046		
Strontium	0.010	.00015	.00022		
Thallium	0.0050	.0012	.0017		
Tin	0.10	.00069	.00081		
Titanium	0.050	.00046	.00051		
Tungsten	0.10	.0028	.022		

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

QC Batch ID: MP25080  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 09/03/15

Metal	RL	IDL	MDL	MB raw	final
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Vanadium 0.010 .00029 .00051

Zinc 0.10 .0003 .001

Zirconium 0.050 .00019 .0012

Associated samples MP25080: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits  
(anr) Analyte not requested

8.1.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

QC Batch ID: MP25080  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 09/03/15

Metal	MC41188-3A Original MS		Spikelot MPICP7	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	0.0	0.54	0.50	108.0	75-125
Barium	1.3	3.3	2.0	100.0	75-125
Beryllium					
Bismuth					
Boron					
Cadmium	0.0077	0.54	0.50	106.5	75-125
Calcium					
Chromium	0.00080	0.48	0.50	95.8	75-125
Cobalt					
Copper					
Gold					
Iron					
Lead	0.14	1.2	1.0	106.0	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Palladium					
Platinum					
Potassium					
Selenium	0.0041	0.58	0.50	115.2	75-125
Silicon					
Silver	0.0	0.21	0.20	105.0	75-125
Sodium					
Sulfur					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41122  
 Account: CRACT - GHD Services Inc.  
 Project: Behr, Peoria, IL

QC Batch ID: MP25080  
 Matrix Type: LEACHATE

Methods: SW846 6010C  
 Units: mg/l

Prep Date: 09/03/15

Metal	MC41188-3A Original MS	SpikeLot MPICP7	% Rec	QC Limits
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Vanadium

Zinc

Zirconium

Associated samples MP25080: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

8.1.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

QC Batch ID: MP25080  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 09/03/15

Metal	MC41188-3A Original	MSD	Spikelot MPICP7	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	0.53	0.50	106.0	1.9	20
Barium	1.3	3.3	2.0	100.0	0.0	20
Beryllium						
Bismuth						
Boron						
Cadmium	0.0077	0.53	0.50	104.5	1.9	20
Calcium						
Chromium	0.00080	0.48	0.50	95.8	0.0	20
Cobalt						
Copper						
Gold						
Iron						
Lead	0.14	1.2	1.0	106.0	0.0	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Palladium						
Platinum						
Potassium						
Selenium	0.0041	0.57	0.50	113.2	1.7	20
Silicon						
Silver	0.0	0.21	0.20	105.0	0.0	20
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41122  
 Account: CRACT - GHD Services Inc.  
 Project: Behr, Peoria, IL

QC Batch ID: MP25080  
 Matrix Type: LEACHATE

Methods: SW846 6010C  
 Units: mg/l

Prep Date: 09/03/15

Metal	MC41188-3A Original MSD	Spikelot MPICP7	% Rec	MSD RPD	QC Limit
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Vanadium

Zinc

Zirconium

Associated samples MP25080: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

8.1.2  
8



## SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

QC Batch ID: MP25080  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: mg/l

Prep Date: 09/03/15

Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	0.53	0.50	106.0	80-120
Barium	2.0	2.0	100.0	80-120
Beryllium				
Bismuth				
Boron				
Cadmium	0.52	0.50	104.0	80-120
Calcium				
Chromium	0.49	0.50	98.0	80-120
Cobalt				
Copper				
Gold				
Iron				
Lead	1.0	1.0	100.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Platinum				
Potassium				
Selenium	0.57	0.50	114.0	80-120
Silicon				
Silver	0.21	0.20	105.0	80-120
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Prep Date: 09/03/15

Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits
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Vanadium

Zinc

Zirconium

Associated samples MP25080: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

QC Batch ID: MP25080  
Matrix Type: LEACHATE

Methods: SW846 6010C  
Units: ug/l

Prep Date: 09/03/15

Metal	MC41188-3A Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	1260	1270	1.4	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	7.70	7.60	1.3	0-10
Calcium				
Chromium	0.800	0.00	100.0(a)	0-10
Cobalt				
Copper				
Gold				
Iron				
Lead	141	145	2.7	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Palladium				
Platinum				
Potassium				
Selenium	4.10	0.00	100.0(a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC41122  
 Account: CRACT - GHD Services Inc.  
 Project: Behr, Peoria, IL

QC Batch ID: MP25080  
 Matrix Type: LEACHATE

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 09/03/15

Metal	MC41188-3A Original SDL 1:5	%DIF	QC Limits
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Vanadium

Zinc

Zirconium

Associated samples MP25080: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.4

8

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

QC Batch ID: MP25083  
Matrix Type: LEACHATE

Methods: SW846 7470A  
Units: mg/l

Prep Date: 09/03/15

Metal	RL	IDL	MDL	MB	
				raw	final

Mercury 0.00020 .000038 .000096 0.000032 <0.00020

Associated samples MP25083: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits  
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41122  
 Account: CRACT - GHD Services Inc.  
 Project: Behr, Peoria, IL

QC Batch ID: MP25083  
 Matrix Type: LEACHATE

Methods: SW846 7470A  
 Units: mg/l

Prep Date: 09/03/15

Metal	MC41188-3A Original MS	Spikelot HGRWS1	% Rec	QC Limits
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Mercury 0.0022 0.0055 0.0030 110.0 75-125

Associated samples MP25083: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

8.2.2

8

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Methods: SW846 7470A  
Units: mg/l

09/03/15

	MC41188-3A	Spikelot		MSD	QC
Metal	Original MSD	HGRWS1	% Rec	RPD	Limit
Mercury	0.0022	0.0056	0.0030	113.3	1.8

Associated samples MP25083: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41122  
 Account: CRACT - GHD Services Inc.  
 Project: Behr, Peoria, IL

QC Batch ID: MP25083  
 Matrix Type: LEACHATE

Methods: SW846 7470A  
 Units: mg/l

Prep Date: 09/03/15

Metal	MC41153-1A		SpikeLot		QC
	Original	LS	HGRWS1	% Rec	Limits

Mercury	0.0	0.0030	0.0030	100.0	75-125
---------	-----	--------	--------	-------	--------

Associated samples MP25083: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

8.2.2

8



SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC41122  
 Account: CRACT - GHD Services Inc.  
 Project: Behr, Peoria, IL

QC Batch ID: MP25083  
 Matrix Type: LEACHATE

Methods: SW846 7470A  
 Units: mg/l

Prep Date: 09/03/15

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits
-------	---------------	--------------------	-------	--------------

Mercury	0.0030	0.0030	100.0	80-120
---------	--------	--------	-------	--------

Associated samples MP25083: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

## General Chemistry

### QC Data Summaries

---

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide Reactivity	GP19512/GN51640	1.5	0.0	mg/kg				
Paint Filter Test	GN51714	0.50	<0.50	ml/100g				
Phenols	GP19535/GN51704	2.5	0.0	mg/kg	10.0	9.4	94.0	80-120%
Solids, Total	GN51731	100	<100	mg/kg				
Sulfide Reactivity	GP19513/GN51641	50	0.0	mg/kg				

Associated Samples:

Batch GN51714: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GN51731: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GP19512: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GP19513: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GP19535: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
(\*) Outside of QC limits

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide Reactivity	GP19512/GN51640	MC41069-2	mg/kg	0.0	0.0	0.0	0-20%
Ignitability (Flashpoint)	GN51668	MC41176-1	Deg. F	>230	>230	0.0	0-20%
Paint Filter Test	GN51714	MC41185-1	ml/100g	<0.50	<0.50	0.0	0-20%
Solids, Percent	GN51653	MC41121-48	%	58.9	61.8	4.8	0-20%
Solids, Percent	GN51654	MC41122-8	%	87.7	86.9	0.9	0-20%
Solids, Percent	GN51655	MC41122-26	%	90.8	91.2	0.4	0-20%
Solids, Percent	GN51669	MC41188-2	%	90.1	90.9	0.9	0-20%
Solids, Percent	GN51679	MC41124-1	%	62.8	61.7	1.8	0-20%
Solids, Total	GN51731	MC41122-46	mg/kg	883000	883000	0.0	0-20%
Sulfide Reactivity	GP19513/GN51641	MC41069-2	mg/kg	0.0	0.0	0.0	0-20%
pH	GN51707	MC41221-3	su	7.3	7.3	0.0	0-20%

Associated Samples:

Batch GN51653: MC41122-1, MC41122-2, MC41122-3, MC41122-4, MC41122-5, MC41122-6, MC41122-7  
Batch GN51654: MC41122-8, MC41122-9, MC41122-10, MC41122-11, MC41122-12, MC41122-13, MC41122-14, MC41122-15, MC41122-16, MC41122-17, MC41122-18, MC41122-19, MC41122-20, MC41122-21, MC41122-22, MC41122-23, MC41122-24, MC41122-25  
Batch GN51655: MC41122-26, MC41122-27, MC41122-28, MC41122-29, MC41122-30, MC41122-31, MC41122-32, MC41122-33, MC41122-34, MC41122-35, MC41122-36, MC41122-37, MC41122-38, MC41122-39, MC41122-40, MC41122-41, MC41122-42, MC41122-43, MC41122-44, MC41122-45  
Batch GN51668: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GN51669: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GN51679: MC41122-50, MC41122-51, MC41122-52, MC41122-53, MC41122-54  
Batch GN51707: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GN51714: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GN51731: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GP19512: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
Batch GP19513: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
(\*) Outside of QC limits

9.2  
9

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phenols	GP19535/GN51704	MC41122-46	mg/kg	0.0	12.5	11.0	88.1	75-125%

Associated Samples:

Batch GP19535: MC41122-46, MC41122-47, MC41122-48, MC41122-49

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

9.3

6

MATRIX SPIKE DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Phenols	GP19535/GN51704	MC41122-46	mg/kg	0.0	12.5	11.0	0.0	

Associated Samples:  
Batch GP19535: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
(\*) Outside of QC limits  
(N) Matrix Spike Rec. outside of QC limits

## Misc. Forms

---

### Custody Documents and Other Forms

(Accutest New Jersey)

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Includes the following where applicable:

- Chain of Custody





## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** MC41122      **Client:** \_\_\_\_\_      **Project:** \_\_\_\_\_  
**Date / Time Received:** 9/4/2015 9:50:00 AM      **Delivery Method:** \_\_\_\_\_      **Airbill #s:** \_\_\_\_\_

Cooler Temps (Raw Measured) °C: Cooler 1: (4.3);  
 Cooler Temps (Corrected) °C: Cooler 1: (4.5);

**Cooler Security**
**Y or N**

- |  |   |
|--|---|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/>        |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/>  | 4. Smpl Dates/Time OK: <input checked="" type="checkbox"/> <input type="checkbox"/> |

**Cooler Temperature**
**Y or N**

- |   |           |
|---|-----------|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/> |           |
| 2. Cooler temp verification: _____  | IR Gun    |
| 3. Cooler media: _____  | Ice (Bag) |
| 4. No. Coolers: _____   | 1         |

**Quality Control Preservation**
**Y or N**
**N/A**

- |   |  |
|---|--|
| 1. Trip Blank present / cooler: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> |  |
| 2. Trip Blank listed on COC: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>    |  |
| 3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  |  |
| 4. VOCs headspace free: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>         |  |

**Sample Integrity - Documentation**
**Y or N**

- |   |  |
|---|--|
| 1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/>   |  |
| 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/>        |  |
| 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/> |  |

**Sample Integrity - Condition**
**Y or N**

- |   |        |
|---|--------|
| 1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/>       |        |
| 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> |        |
| 3. Condition of sample: _____   | Intact |

**Sample Integrity - Instructions**
**Y or N N/A**

- |   |                                     |
|---|-------------------------------------|
| 1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/>   |                                     |
| 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/>                    | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/>                      | <input checked="" type="checkbox"/> |

Comments

## General Chemistry

### QC Data Summaries

(Accutest New Jersey)

---

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122  
Account: ALNE - Accutest Labs of New England, Inc.  
Project: CRACT: Behr, Peoria, IL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Halides	GP92000/GN32407	20	14.6	mg/kg	200	234	117.0	80-120%

Associated Samples:  
Batch GP92000: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
(\*) Outside of QC limits

11.1  
11

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122  
Account: ALNE - Accutest Labs of New England, Inc.  
Project: CRACT: Behr, Peoria, IL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Bulk Density (Dry Basis)	GN32041	MC41122-46	g/ml	1.1	1.1	0.0	0-36%
Total Organic Halides	GP92000/GN32459	JC3709-7	mg/kg	0.0	0.0	0.0	0-20%

Associated Samples:

Batch GN32041: MC41122-46, MC41122-47, MC41122-48, MC41122-49

Batch GP92000: MC41122-46, MC41122-47, MC41122-48, MC41122-49

(\*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122  
Account: ALNE - Accutest Labs of New England, Inc.  
Project: CRACT: Behr, Peoria, IL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Halides	GP92000/GN32459	JC3709-7	mg/kg	0.0	200	189	94.3	35-152%

Associated Samples:  
Batch GP92000: MC41122-46, MC41122-47, MC41122-48, MC41122-49  
(\*) Outside of QC limits  
(N) Matrix Spike Rec. outside of QC limits



10/16/15

## Technical Report for

GHD Services Inc.

Behr, Peoria, IL

11103179

Accutest Job Number: MC41122R

Sampling Date: 08/27/15

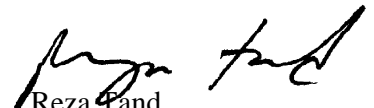
Report to:

GHD Services Inc.  
45 Farmington Valley Dr.  
Plainville, CT 06062  
kathleen.shaw@ghd.com; douglas.soutter@ghd.com  
  
ATTN: Kathy Shaw

Total number of pages in report: **19**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

  
Reza Fand  
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Sample Summary

GHD Services Inc.

Job No: MC41122R

Behr, Peoria, IL  
Project No: 11103179

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC41122-47R	08/27/15	09:23 JHCW	08/29/15	SO	Soil	S-082715-GW-52
MC41122-49R	08/27/15	09:44 JHCW	08/29/15	SO	Soil	S-082715-GW-54

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Summary of Hits

Job Number: MC41122R  
Account: GHD Services Inc.  
Project: Behr, Peoria, IL  
Collected: 08/27/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC41122-47R S-082715-GW-52

No hits reported in this sample.

MC41122-49R S-082715-GW-54

No hits reported in this sample.

## Sample Results

## Report of Analysis

Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-52	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-47R	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	87.6
<b>Project:</b>	Behr, Peoria, IL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide <sup>a</sup>	< 0.13	0.13	mg/kg	1	10/13/15 12:09	CF	SW846 9012 M

(a) Analysis performed past the recommended holding time as per client instructions.

RL = Reporting Limit

Report of Analysis

<b>Client Sample ID:</b>	S-082715-GW-54	<b>Date Sampled:</b>	08/27/15
<b>Lab Sample ID:</b>	MC41122-49R	<b>Date Received:</b>	08/29/15
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.1
<b>Project:</b>	Behr, Peoria, IL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide <sup>a</sup>	< 0.13	0.13	mg/kg	1	10/13/15 12:08	CF	SW846 9012 M

(a) Analysis performed past the recommended holding time as per client instructions.

RL = Reporting Limit

## Misc. Forms

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### Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody

**CONESTOGA-ROVERS & ASSOCIATES**  
8615-W. Bryn Mawr Avenue  
Chicago, Illinois 60631  
(773)380-9933 phone  
(773)380-6421 fax

**SHIPPED TO**  
(Laboratory Name): MC41122R

**REFERENCE NUMBER:**  
1110349

**PROJECT NAME:**  
Beck - Penta - 10/15/05

**CHAIN-OF-CUSTODY RECORD**

**SAMPLER'S SIGNATURE:** [Signature] **PRINTED NAME:** Greg White

**PARAMETERS**

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	REMARKS
1	08-26-05	0949	S-282215-GWJ-01	S	1	
2		0904	-02		1	
3		0911	-03		1	
4		0922	-04		1	STAINED
5		0946	-05		1	
6		0940	-06		1	TAT
7		0958	-07		1	
8		1002	-08		1	
9		1008	-09		1	
10		1005	-10		1	
11		1020	-11		1	
12		1025	-12		1	
13		1027	-13		1	
14		1032	-14		1	
15		1043	-15		1	
<b>TOTAL NUMBER OF CONTAINERS</b>					15	

**RELINQUISHED BY:**  
① [Signature] **DATE:** 8-26-05 **TIME:** 1000

**RECEIVED BY:**  
② [Signature] **DATE:** 8-26-05 **TIME:** 1000

**RELINQUISHED BY:**  
③ [Signature] **DATE:** 8-26-05 **TIME:** 1000

**RECEIVED BY:**  
④ [Signature] **DATE:** 8-26-05 **TIME:** 1000

**METHOD OF SHIPMENT:** First Class - Overnight **AIR BILL No.** 8311578

**White** - Fully Executed Copy  
**Yellow** - Receiving Laboratory Copy  
**Pink** - Shipper Copy  
**Goldenrod** - Sampler Copy

**SAMPLE TEAM:**  
[Signature]  
[Signature]

**RECEIVED FOR LABORATORY BY:**  
[Signature] **DATE:** 8-26-05 **TIME:** 1000

**REVISED**  
8/31/05

MC41122R: Chain of Custody

Page 1 of 7

## 4.1

<b>CONESTOGA-ROVERS &amp; ASSOCIATES</b> 8615 W. Bryn Mawr Avenue Chicago, Illinois 60631 (773)380-9933 phone (773)380-6421 fax			SHIPPED TO (Laboratory Name): <u>Accutest Laboratories</u>			PROJECT NAME: <u>MC41122R</u>		
			REFERENCE NUMBER: <u>1102271</u>					
<b>CHAIN-OF-CUSTODY RECORD</b>								
SAMPLER'S SIGNATURE: <u>[Signature]</u>			PRINTED NAME: <u>John Hay</u>			No. OF CONTAINERS 15		
						PARAMETERS		
						REMARKS		
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.		SAMPLE MATRIX			
31	022615	1349	S-022615-(W)-21		S			
32		1352						
33		1402						
34		1414						
35		1421						
36		1425						
37		1432						
38		1442						
39		1441						
40		1442						
41		1502						
42		1511						
43	022715	0746	S-022715-(W)-43		S			
44		0744						
45		1715						
TOTAL NUMBER OF CONTAINERS						15		
RELINQUISHED BY: ① <u>John Hay</u>			DATE: 022615 TIME: 1349			RECEIVED BY: ② _____		
RELINQUISHED BY: ② _____			DATE: TIME:			RECEIVED BY: ③ _____		
RELINQUISHED BY: ③ _____			DATE: TIME:			RECEIVED BY: ④ _____		
METHOD OF SHIPMENT: <u>FEDEX</u>						AIR BILL No. <u>83115</u>		
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy			SAMPLE TEAM: <u>[Signature]</u> <u>[Signature]</u>			RECEIVED FOR LABORATORY BY: _____ DATE: _____ TIME: _____		

1001-00(SOURCE)GN-CO004





640, Inc. - Rosemont, Illinois

<b>CONESTOGA-ROVERS &amp; ASSOCIATES</b> 8520 Corporate Drive Indianapolis, Indiana 46278 (317) 291-7007 phone (317) 328-2686 fax			SHIPPED TO (Laboratory Name): ALBERT LABORATORIES		PROJECT NAME: MC41122R	
CHAIN-OF-CUSTODY RECORD			REFERENCE NUMBER: 11103179		PROJECT NAME: ROAD - PEORIA, ILLINOIS	
SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: <i>Greg W. J. [Signature]</i>		PARAMETERS	
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	REMARKS
-50	08-27-05	0752	S - 082715 - GW-46	Soil	1	X
-51	08-27-05	0756	-47	↓	1	X
-52	08-27-05	0759	-48	↓	1	X
-53	08-27-05	0804	-49	↓	1	X
-54	08-27-05	0808	-50	↓	1	X
TOTAL NUMBER OF CONTAINERS						5
RELINQUISHED BY: <i>John Hargis</i>			DATE: 8-26-15 TIME: 1000		RECEIVED BY: <i>[Signature]</i>	
RELINQUISHED BY: <i>[Signature]</i>			DATE: <i>[Blank]</i> TIME: <i>[Blank]</i>		RECEIVED BY: <i>[Signature]</i>	
RELINQUISHED BY: <i>[Signature]</i>			DATE: <i>[Blank]</i> TIME: <i>[Blank]</i>		RECEIVED BY: <i>[Signature]</i>	
METHOD OF SHIPMENT: <i>FedEx Priority Overnight</i>				TRACKING No. <i>813115</i>		
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy			SAMPLE TEAM: <i>Greg W. J. [Signature]</i> <i>John Hargis</i>		RECEIVED FOR LABORATORY BY: <i>[Signature]</i> DATE: <i>[Blank]</i> TIME: <i>[Blank]</i>	

400001-00(SOURCE)GN-CO007

MC41122R: Chain of Custody

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**Jeremy Vienneau**

**From:** Shaw, Kathy <Kathleen.Shaw@ghd.com>  
**Sent:** Friday, October 09, 2015 2:58 PM  
**To:** Jeremy Vienneau  
**Cc:** Soutter, Doug; Project Email Filing  
**Subject:** RE: 11103179 ~VEN-11103179~  
**Attachments:** SSOW-11103179-20151009-001-RL.xlsm

Hi Jeremy,

We would like to have samples -052 and -054 run for total CN on a 1 week turn. The revised SSOW is attached. Please contact me with any questions.

Thanks,  
 Kathy

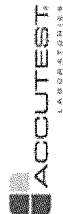
**From:** Jeremy Vienneau [mailto:[jeremv@accutest.com](mailto:jeremv@accutest.com)]  
**Sent:** Friday, October 09, 2015 1:41 PM  
**To:** Shaw, Kathy  
**Subject:** RE: 11103179

Hi Kathy,

We still have volume for both samples. Do you want them analyzed?

Regards,

Jeremy Vienneau  
 Project Manager  
 Accutest Laboratories of NE  
 Voice: 508.481.6200 Ext. 2106  
 Fax: 508.481.7753  
[jeremv@accutest.com](mailto:jeremv@accutest.com)



*"The National Testing Laboratory with Total Performance you can count on"*

**From:** Shaw, Kathy [mailto:[Kathleen.Shaw@ghd.com](mailto:Kathleen.Shaw@ghd.com)]  
**Sent:** Friday, October 09, 2015 1:01 PM  
**To:** Jeremy Vienneau  
**Subject:** 11103179  
**Importance:** High

Hi Jeremy,

Our client is wondering if total cyanide can be calculated from reactive CN? If not, can you let me know if there is sample available for samples -052 and -054 to re-run even though it is out of holding time? Please let me know as soon as you can. Batch # is MC41122.

Thanks,  
Kathy

**Kathleen Shaw**  
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## General Chemistry

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122R  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP19677/GN52014	0.12	0.0	mg/kg	1.2	1.26	105.0	90-110%
Cyanide	GP19677/GN52014			mg/kg	2.4	2.48	103.3	90-110%

Associated Samples:  
Batch GP19677: MC41122-47R, MC41122-49R  
(\*) Outside of QC limits

5.1  
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DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122R  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP19677/GN52014	MC41122-49R	mg/kg	0.083	0.036	79.0(a)	0-20%

Associated Samples:

Batch GP19677: MC41122-47R, MC41122-49R

(\*) Outside of QC limits

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: MC41122R  
Account: CRACT - GHD Services Inc.  
Project: Behr, Peoria, IL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP19677/GN52014	MC41122-49R	mg/kg	0.083	1.29	1.4	101.8	75-125%

Associated Samples:

Batch GP19677: MC41122-47R, MC41122-49R

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits



# Appendix D

## 2015 Validation Memorandum



# Memorandum

To: Doug Soutter

Ref. No.: 11103179

From: Kathy Shaw/eeew/1-NF 

Date: October 8, 2015

**Re: Analytical Results and Reduced Validation  
Environmental Remediation  
Behr - Peoria / Behr Iron & Metal  
Peoria, Illinois  
August 2015**

## 1. Introduction

This document details a reduced validation of analytical results for soil samples collected in support of the Environmental Remediation at the Behr Peoria site during August 2015. Samples were submitted to Accutest Laboratory located in Marlborough, Massachusetts. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS) and matrix spike (MS) samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the document entitled:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008.

Item i) will subsequently be referred to as the "Guidelines" in this Memorandum.

## 2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (4 +/- 2°C).

### 3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

### 4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for polychlorinated biphenyls (PCB) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and analysis.

Surrogate recoveries were assessed against laboratory PCB control limits. All surrogate recoveries met the above criteria.

Due to necessary sample dilutions, surrogate recoveries could not be reported for some samples.

### 5. Laboratory Control Sample Analyses

The LCS is prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, the LCS was analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory PCB control limits, demonstrating acceptable analytical accuracy.

### 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration(s) of the analyte(s) of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory PCB control limits, demonstrating acceptable analytical accuracy and precision.

## 7. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the reporting limit (RL) but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

Due to the variety of Aroclors present in the samples and the overlapping of patterns or sharing of peaks, some of the hits may be biased high.

Variability in results between the primary and confirmation column was observed for PCB-1248 in sample S-082615-GW-20. The result was qualified as presumed present and estimated to reflect the lack of precision and potential high bias in Table 4.

All soil results were reported on a dry weight basis.

## 8. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Tables 2 and 4 are acceptable with the specific qualifications noted herein.

Table 1

**Sample Collection and Analysis Summary**  
**Environmental Remediation**  
**Behr-Peoria/Behr Iron & Metal**  
**Peoria, Illinois**  
**August 2015**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameter</u>	
					PCB	Comments
S-082615-GW-01	1	Soil	08/26/2015	08:49	X	
S-082615-GW-02	2	Soil	08/26/2015	09:04	X	
S-082615-GW-03	3	Soil	08/26/2015	09:11	X	
S-082615-GW-04	4	Soil	08/26/2015	09:22	X	
S-082615-GW-05	5	Soil	08/26/2015	09:26	X	
S-082615-GW-06	6	Soil	08/26/2015	09:40	X	
S-082615-GW-07	7	Soil	08/26/2015	09:58	X	
S-082615-GW-08	8	Soil	08/26/2015	10:02	X	
S-082615-GW-09	9	Soil	08/26/2015	10:08	X	
S-082615-GW-10	10	Soil	08/26/2015	10:15	X	
S-082615-GW-11	11	Soil	08/26/2015	10:20	X	
S-082615-GW-12	12	Soil	08/26/2015	10:23	X	
S-082615-GW-13	13	Soil	08/26/2015	10:27	X	
S-082615-GW-14	14	Soil	08/26/2015	10:32	X	MS/MSD
S-082615-GW-15	15	Soil	08/26/2015	10:39	X	
S-082615-GW-16	16	Soil	08/26/2015	10:43	X	
S-082615-GW-17	17	Soil	08/26/2015	10:59	X	
S-082615-GW-18	18	Soil	08/26/2015	11:07	X	
S-082615-GW-19	19	Soil	08/26/2015	11:10	X	MS/MSD
S-082615-GW-20	20	Soil	08/26/2015	11:13	X	
S-082615-GW-21	21	Soil	08/26/2015	11:17	X	
S-082615-GW-22	22	Soil	08/26/2015	11:35	X	MS/MSD
S-082615-GW-23	23	Soil	08/26/2015	11:45	X	
S-082615-GW-24	24	Soil	08/26/2015	12:59	X	
S-082615-GW-25	25	Soil	08/26/2015	13:04	X	
S-082615-GW-26	26	Soil	08/26/2015	13:12	X	
S-082615-GW-27	27	Soil	08/26/2015	13:15	X	
S-082615-GW-28	28	Soil	08/26/2015	13:19	X	
S-082615-GW-29	29	Soil	08/26/2015	13:24	X	
S-082615-GW-30	30	Soil	08/26/2015	13:43	X	
S-082615-GW-31	31	Soil	08/26/2015	13:49	X	
S-082615-GW-32	32	Soil	08/26/2015	13:52	X	
S-082615-GW-33	33	Soil	08/26/2015	14:08	X	
S-082615-GW-34	34	Soil	08/26/2015	14:14	X	
S-082615-GW-35	35	Soil	08/26/2015	14:21	X	MS/MSD
S-082615-GW-36	36	Soil	08/26/2015	14:25	X	
S-082615-GW-37	37	Soil	08/26/2015	14:32	X	
S-082615-GW-38	38	Soil	08/26/2015	14:35	X	
S-082615-GW-39	39	Soil	08/26/2015	14:41	X	

Table 1

**Sample Collection and Analysis Summary**  
**Environmental Remediation**  
**Behr-Peoria/Behr Iron & Metal**  
**Peoria, Illinois**  
**August 2015**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameter</u>	
					PCB	Comments
S-082615-GW-40	40	Soil	08/26/2015	14:48	X	
S-082615-GW-41	41	Soil	08/26/2015	15:08	X	
S-082615-GW-42	42	Soil	08/26/2015	15:11	X	
S-082715-GW-43	43	Soil	08/27/2015	07:36	X	
S-082715-GW-44	44	Soil	08/27/2015	07:44	X	
S-082715-GW-45	45	Soil	08/27/2015	07:48	X	
S-082715-GW-46	46	Soil	08/27/2015	07:52	X	
S-082715-GW-47	47	Soil	08/27/2015	07:56	X	
S-082715-GW-48	48	Soil	08/27/2015	07:59	X	
S-082715-GW-49	49	Soil	08/27/2015	08:04	X	
S-082715-GW-50	50	Soil	08/27/2015	08:08	X	

## Notes:

PCB            - Polychlorinated Biphenyls  
MS/MSD      - Matrix Spike/Matrix Spike Duplicate

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Sample Name:</b>	<b>S-082615-GW-01</b>	<b>S-082615-GW-02</b>	<b>S-082615-GW-03</b>	<b>S-082615-GW-04</b>	<b>S-082615-GW-05</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Depth:</b>	<b>6 ft above concrete slab</b>	<b>5 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>2 ft above concrete slab</b>	<b>2 ft above concrete slab</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	36 U	40 U	36 U	36 U	37 U
Aroclor-1221 (PCB-1221)	µg/kg	36 U	40 U	36 U	36 U	37 U
Aroclor-1232 (PCB-1232)	µg/kg	36 U	40 U	36 U	36 U	37 U
Aroclor-1242 (PCB-1242)	µg/kg	36 U	40 U	36 U	36 U	37 U
Aroclor-1248 (PCB-1248)	µg/kg	6770	42900	15200	12500	11000
Aroclor-1254 (PCB-1254)	µg/kg	10100	38900	13000	14800	15900
Aroclor-1260 (PCB-1260)	µg/kg	2340	3970 J	2620 J	3100 J	3140 J

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Sample Name:</b>	<b>S-082615-GW-06</b>	<b>S-082615-GW-07</b>	<b>S-082615-GW-08</b>	<b>S-082615-GW-09</b>	<b>S-082615-GW-10</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Depth:</b>	<b>1 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	37 U	35 U	36 U	36 U	36 U
Aroclor-1221 (PCB-1221)	µg/kg	37 U	35 U	36 U	36 U	36 U
Aroclor-1232 (PCB-1232)	µg/kg	37 U	35 U	36 U	36 U	36 U
Aroclor-1242 (PCB-1242)	µg/kg	37 U	35 U	36 U	36 U	36 U
Aroclor-1248 (PCB-1248)	µg/kg	5130	4070	5300	8980	8040
Aroclor-1254 (PCB-1254)	µg/kg	5740	7380	7900	11700	12200
Aroclor-1260 (PCB-1260)	µg/kg	1300	1640	2030	2330	3000



Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>Sample Name:</b>	<b>S-082615-GW-11</b>	<b>S-082615-GW-12</b>	<b>S-082615-GW-13</b>	<b>S-082615-GW-14</b>	<b>S-082615-GW-15</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Depth:</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	37 U	36 U	35 U	37 U	36 U
Aroclor-1221 (PCB-1221)	µg/kg	37 U	36 U	35 U	37 U	36 U
Aroclor-1232 (PCB-1232)	µg/kg	37 U	36 U	35 U	37 U	36 U
Aroclor-1242 (PCB-1242)	µg/kg	37 U	36 U	35 U	37 U	36 U
Aroclor-1248 (PCB-1248)	µg/kg	3450	2800	7450	16500	8020
Aroclor-1254 (PCB-1254)	µg/kg	4200	3480	12500	19800	11000
Aroclor-1260 (PCB-1260)	µg/kg	1560	1120	3120	3130 J	2650

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
<b>Sample Name:</b>	<b>S-082615-GW-16</b>	<b>S-082615-GW-17</b>	<b>S-082615-GW-18</b>	<b>S-082615-GW-19</b>	<b>S-082615-GW-20</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Depth:</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	37 U	36 U	37 U	37 U	37 U
Aroclor-1221 (PCB-1221)	µg/kg	37 U	36 U	37 U	37 U	37 U
Aroclor-1232 (PCB-1232)	µg/kg	37 U	36 U	37 U	37 U	37 U
Aroclor-1242 (PCB-1242)	µg/kg	37 U	36 U	37 U	37 U	37 U
Aroclor-1248 (PCB-1248)	µg/kg	7110	2000	2720	9480	15700 J
Aroclor-1254 (PCB-1254)	µg/kg	13600	4150	4710	13500	17300
Aroclor-1260 (PCB-1260)	µg/kg	4170	1040	1260 J	3140	2250

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>
<b>Sample Name:</b>	<b>S-082615-GW-21</b>	<b>S-082615-GW-22</b>	<b>S-082615-GW-23</b>	<b>S-082615-GW-24</b>	<b>S-082615-GW-25</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Depth:</b>	<b>6 ft above concrete slab</b>	<b>1 ft above concrete slab</b>	<b>1 ft above concrete pad</b>	<b>6 ft above concrete pad</b>	<b>6 ft above concrete pad</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	35 U	37 U	38 U	39 U	36 U
Aroclor-1221 (PCB-1221)	µg/kg	35 U	37 U	38 U	39 U	36 U
Aroclor-1232 (PCB-1232)	µg/kg	35 U	37 U	38 U	39 U	36 U
Aroclor-1242 (PCB-1242)	µg/kg	35 U	37 U	38 U	39 U	36 U
Aroclor-1248 (PCB-1248)	µg/kg	13400	6320	6100	7770	10900
Aroclor-1254 (PCB-1254)	µg/kg	18700	13000	9210	9800	9790
Aroclor-1260 (PCB-1260)	µg/kg	4140	3110	1830	2180	2360

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
<b>Sample Name:</b>	<b>S-082615-GW-26</b>	<b>S-082615-GW-27</b>	<b>S-082615-GW-28</b>	<b>S-082615-GW-29</b>	<b>S-082615-GW-30</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Depth:</b>	<b>6 ft above concrete pad</b>	<b>6 ft above concrete pad</b>	<b>6 ft above concrete pad</b>	<b>6 ft above concrete pad</b>	<b>6 ft above concrete pad</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	36 U	37 U	36 U	36 U	37 U
Aroclor-1221 (PCB-1221)	µg/kg	36 U	37 U	36 U	36 U	37 U
Aroclor-1232 (PCB-1232)	µg/kg	36 U	37 U	36 U	36 U	37 U
Aroclor-1242 (PCB-1242)	µg/kg	36 U	37 U	36 U	36 U	37 U
Aroclor-1248 (PCB-1248)	µg/kg	10700	11500	7850	13200	11300
Aroclor-1254 (PCB-1254)	µg/kg	14100	13800	12400	17500	15000
Aroclor-1260 (PCB-1260)	µg/kg	3350	2930	2820	4460	2690

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>
<b>Sample Name:</b>	<b>S-082615-GW-31</b>	<b>S-082615-GW-32</b>	<b>S-082615-GW-33</b>	<b>S-082615-GW-34</b>	<b>S-082615-GW-35</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Depth:</b>	<b>6 ft above concrete pad</b>	<b>5.5 ft above concrete pad</b>	<b>1 ft above concrete pad</b>	<b>1 ft above concrete pad</b>	<b>6 ft above concrete pad</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	35 U	38 U	38 U	39 U	36 U
Aroclor-1221 (PCB-1221)	µg/kg	35 U	38 U	38 U	39 U	36 U
Aroclor-1232 (PCB-1232)	µg/kg	35 U	38 U	38 U	39 U	36 U
Aroclor-1242 (PCB-1242)	µg/kg	35 U	38 U	38 U	39 U	36 U
Aroclor-1248 (PCB-1248)	µg/kg	8260	21300	22700	20600	6120
Aroclor-1254 (PCB-1254)	µg/kg	12200	22100	39800	69100	10800
Aroclor-1260 (PCB-1260)	µg/kg	2860	3410	5930	8790	4310

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>
<b>Sample Name:</b>	<b>S-082615-GW-36</b>	<b>S-082615-GW-37</b>	<b>S-082615-GW-38</b>	<b>S-082615-GW-39</b>	<b>S-082615-GW-40</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/26/2015</b>
<b>Depth:</b>	<b>6 ft above concrete pad</b>	<b>6 ft above concrete pad</b>	<b>6 ft above concrete pad</b>	<b>6 ft above concrete pad</b>	<b>4.5 ft above concrete pad</b>

**Parameters****Units**

<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	37 U	36 U	36 U	40 U	40 U
Aroclor-1221 (PCB-1221)	µg/kg	37 U	36 U	36 U	40 U	40 U
Aroclor-1232 (PCB-1232)	µg/kg	37 U	36 U	36 U	40 U	40 U
Aroclor-1242 (PCB-1242)	µg/kg	37 U	36 U	36 U	40 U	40 U
Aroclor-1248 (PCB-1248)	µg/kg	8540	9560	3560	4100	2100
Aroclor-1254 (PCB-1254)	µg/kg	14100	15400	6230	4200	3470
Aroclor-1260 (PCB-1260)	µg/kg	3010	3590	1640	762	863

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>
<b>Sample Name:</b>	<b>S-082615-GW-41</b>	<b>S-082615-GW-42</b>	<b>S-082715-GW-43</b>	<b>S-082715-GW-44</b>	<b>S-082715-GW-45</b>
<b>Sample Date:</b>	<b>8/26/2015</b>	<b>8/26/2015</b>	<b>8/27/2015</b>	<b>8/27/2015</b>	<b>8/27/2015</b>
<b>Depth:</b>	<b>1 ft above concrete pad</b>	<b>1 ft above concrete pad</b>	<b>1.5 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	36 U	36 U	35 U	35 U	41 U
Aroclor-1221 (PCB-1221)	µg/kg	36 U	36 U	35 U	35 U	41 U
Aroclor-1232 (PCB-1232)	µg/kg	36 U	36 U	35 U	35 U	41 U
Aroclor-1242 (PCB-1242)	µg/kg	36 U	36 U	35 U	35 U	41 U
Aroclor-1248 (PCB-1248)	µg/kg	5070	4620	4270	3180	902
Aroclor-1254 (PCB-1254)	µg/kg	8570	7070	7630	5680	1460
Aroclor-1260 (PCB-1260)	µg/kg	2670	1760	1860	1580	322

Table 2

**Analytical Results Summary  
Environmental Remediation  
Behr-Peoria/Behr Iron Metal  
Peoria, Illinois  
August 2015**

<b>Location ID:</b>	<b>46</b>	<b>47</b>	<b>48</b>	<b>49</b>	<b>50</b>
<b>Sample Name:</b>	<b>S-082715-GW-46</b>	<b>S-082715-GW-47</b>	<b>S-082715-GW-48</b>	<b>S-082715-GW-49</b>	<b>S-082715-GW-50</b>
<b>Sample Date:</b>	<b>8/27/2015</b>	<b>8/27/2015</b>	<b>8/27/2015</b>	<b>8/27/2015</b>	<b>8/27/2015</b>
<b>Depth:</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>	<b>6 ft above concrete slab</b>

<b>Parameters</b>	<b>Units</b>					
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	µg/kg	42 U	36 U	36 U	36 U	35 U
Aroclor-1221 (PCB-1221)	µg/kg	42 U	36 U	36 U	36 U	35 U
Aroclor-1232 (PCB-1232)	µg/kg	42 U	36 U	36 U	36 U	35 U
Aroclor-1242 (PCB-1242)	µg/kg	42 U	36 U	36 U	36 U	35 U
Aroclor-1248 (PCB-1248)	µg/kg	1740	8720	10900	4010	4970
Aroclor-1254 (PCB-1254)	µg/kg	2490	11600	28200	6710	9610
Aroclor-1260 (PCB-1260)	µg/kg	525	2570	4150	1620	2240

## Notes:

PCBs - Polychlorinated Biphenyls

U - Not detected at the associated reporting

J - Estimated concentration



**Table 3**

**Analytical Methods  
Environmental Remediation  
Behr-Peoria/Behr Iron & Metal  
Peoria, Illinois  
August 2015**

<b>Parameter</b>	<b>Method</b>	<b>Matrix</b>	<b>Preservation</b>	<b>Holding Time</b>	
				<b>Collection to Extraction (Days)</b>	<b>Collection or Extraction to Analysis (Days)</b>
Polychlorinated Biphenyls (PCBs)	SW-846 8082	Soil	Iced, 0-6° C	14	40

Notes:

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

**Table 4**

**Qualified Sample Data Due to Differences in Dual Column Results  
Environmental Remediation  
Behr-Peoria/Behr Iron & Metal  
Peoria, Illinois  
August 2015**

<b>Parameter</b>	<b>Analyte</b>	<b>RPD (percent)</b>	<b>Criteria (percent)</b>	<b>Associated Sample ID</b>	<b>Qualified Result</b>	<b>Units</b>
PCB	PCB-1248	> 40	< 40	S-082615-GW-20	15700 J	µg/kg

**Notes:**

RPD - Relative Percent Difference  
J - Estimated concentration  
PCB - Polychlorinated Biphenyls

# Appendix E

## Resumes of GHD and Tephra Project Personnel

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive



Not Responsive

Not Responsive

# Appendix F

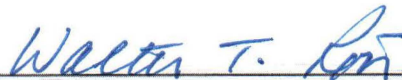
## Certification by the Property Owner and the Party Conducting the Cleanup

## Appendix F

Behr Peoria, Inc. plans to implement a self-implementing cleanup and disposal of stockpiled soil/fill containing polychlorinated biphenyl (PCB) remediation waste at the facility located at 2424 West Clark Street, Peoria, Illinois (Site). The Site has been identified as LPC#: 1430655140 and USEPA ID: ILD065238503.

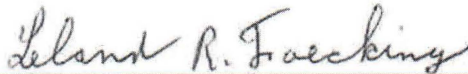
The owner of the Site, IBS, Inc., and the party conducting the cleanup, Behr Peoria, Inc., hereby certify that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file electronically at the GHD office located at 6400 Shafer Court, Rosemont, Illinois 60018 (please reference GHD project number 11103179), and are available for EPA inspection.

IBS Inc.  
(property owner)



W. Theodore Roth, President

Behr Peoria Inc.  
(party conducting the cleanup)



Leland R. Foecking, Treasurer



November 18, 2015

Reference No. 11103179

Susan Hedman  
Region 5 Regional Administrator  
c/o Jennifer Dodds  
U.S. Environmental Protection Agency  
77 W. Jackson Boulevard, Mail Code LU-9J  
Chicago, Illinois 60604-3590

**VIA EMAIL AND  
CERTIFIED MAIL**

Lisa Bonnett, Director  
c/o Todd Gross  
Illinois Environmental Protection Agency  
Bureau of Land, Division of Remediation Management  
Remedial Project Management Section  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, IL 62794-9276

Wil Hayes  
Director of Environmental Health  
Peoria City/County Health Department  
2116 N. Sheridan Road, Peoria, IL 61604

Dear Sirs:

**Re: Addendum to the October 22, 2015 Work Plan for Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste  
Behr Peoria, Inc. Facility, 2424 West Clark Street, Peoria, Peoria County, Illinois  
LPC#: 1430655140 and USEPA ID: ILD065238503**

GHD Services Inc. (GHD) has prepared this Addendum to the October 22, 2015 Work Plan for Self-Implementing On-Site Cleanup and Disposal of PCB Remediation Waste, Behr Peoria, Inc. Facility, 2424 West Clark Street, Peoria, Peoria County, Illinois (Work Plan) to address issues discussed with the U.S. Environmental Protection Agency (U.S. EPA) project manager Jennifer Dodds during a November 13, 2015 telephone conversation.

This Addendum modifies the "Decontamination of the Concrete Slab and Verification Sampling" section of the Work Plan (Section 4.7.5) and provides for additional actions to be taken if verification sampling exceeds the most stringent cleanup criteria of 1 milligram per kilogram (mg/kg) of polychlorinated biphenyls (PCBs).

## 1. Verification Sampling of the Decontamination of the Concrete Slab

The Work Plan describes the removal of stockpiled soil/fill that is currently located on a concrete slab. Once the soil/fill is removed and the concrete pad is decontaminated, verification sampling of the concrete pad will be performed to determine compliance with remediation objectives.

The verification sampling will be performed on the concrete slab beneath the North Pile, which is the portion which held soil/fill that exhibited PCB concentrations greater than 50 mg/kg.

Composite sampling of the concrete will be performed in accordance with 40 CFR 761.289. Since the Site is a scrapyard, the original source of contamination is unknown, and there is no indication of a single point source, the compositing procedure described in 40 CFR 761.289(b)(1)(i) will be used. This procedure is described as:

*“The first procedure is for sites with multiple point sources of contamination (such as an old electrical equipment storage area, a scrap yard, or repair shop) or for unknown sources of contamination. Under this compositing scheme, composite a maximum of nine samples for each type of bulk PCB remediation waste or porous surface at the cleanup site. The maximum dimensions of the area enclosing a nine grid point composite is two grid intervals bounded by three collinear grid points (3.0 meters or approximately 10 feet long). Take all samples in the composite at the same depth. Assure that composite sample areas and individually analyzed samples completely overlay the cleanup site” 40 CFR 761.289(b)(1)(i).*

The North Pile concrete pad will be divided into a grid which is composed of rectangles up to 3 meters on a side. A composite sample will be collected from each grid area and will be composed of 9 or fewer subsamples collected at 1 meter intervals. The sample locations are shown on Figure 1.

Composite subsamples will be collected from the cuttings/powder created by advancing a 2.0 to 3.0 cm (0.79 to 1.18 inch) diameter hammer drill through either the full thickness of the concrete slab or 7.5 cm (2.95 inches), whichever is less (i.e., consistent with 40 CFR 761.286). The cuttings/ powder from the 9 subsamples will be mixed together in a stainless steel bowl. After mixing, the composite will be used to fill pre-cleaned laboratory-supplied sample containers. Duplicate samples will be collected at a rate of one duplicate per 20 samples. The samples will be placed in a cooler, chilled with water ice, and sent to the project laboratory via overnight courier along with chain-of-custody records. The samples will be analyzed for PCBs.

## 2. Compliance of the Concrete Slab with Remediation Objectives

The analytical results of the verification sampling of the concrete slab will be used to determine a method for complying with the remediation objectives listed in 40 CFR 761(a)(4)(i).

If the maximum detected PCB concentration from the verification samples is  $\leq 1$  mg/kg, the cleanup will be complete without further conditions (40 CFR 761.61(a)(4)(i)(A)).

If the maximum detected PCB concentration from the verification samples is  $>1$  and  $\leq 25$  mg/kg, an environmental notice will be submitted to the Peoria County Recorder of Deeds documenting that the concrete slab area has been used for PCB remediation waste disposal and is restricted to use as a low occupancy area (40 CFR 761.61(a)(8)). Aside from the stockpile sampling efforts, the concrete slab area has not been used for any purpose that required human occupancy for the last five years, which is consistent with a low occupancy area.

If the maximum detected PCB concentration from the verification samples is  $>25$  and  $\leq 50$  mg/kg, an environmental notice will be submitted to the Peoria County Recorder of Deeds documenting that the concrete slab area has been used for PCB remediation waste disposal, the requirement to maintain any fence or cap, and the restriction to use as a low occupancy area. One of the following options will be implemented along with the deed notice:

- the slab will be secured by a fence and marked with 6x6 inch PCB (ML mark) warning signs (40 CFR 761.61(a)(4)(i)(B)(2)).
- the area will be capped with 6-inches of asphalt or concrete.

Alternately, if the area identified as exceeding 1 mg/kg PCBs is small, that portion of the slab may be removed for off-Site disposal followed by additional confirmation samples of the underlying soil.

We request a review and written approval of the October 22, 2015 Work Plan as modified by this Addendum by the U.S. EPA. Please let me know if you have any questions or comments regarding this request. I can be reached by phone at 773-380-9731 or by email at [douglas.soutter@ghd.com](mailto:douglas.soutter@ghd.com).

Sincerely,

GHD



Douglas Soutter

DS/lg/2

Encl.

cc: Ronald Coupar, Behr Peoria, Inc.  
Bernadette Greenwood, Tephra Environmental Compliance

